

རྒྱལ་ཡོངས་ཚུལ་དཔྱད་བཀོད་འཛིན།

National Statistics Bureau



འབྲུག་གི་ཚུལ་དཔྱད་ལོ་དེབ་ ༢༠༡༦།

**Statistical Yearbook
of Bhutan 2016**

September 2016

ORGANOGRAM OF THE ROYAL GOVERNMENT OF BHUTAN POST CONSTITUTIONAL ENACTMENT 2009

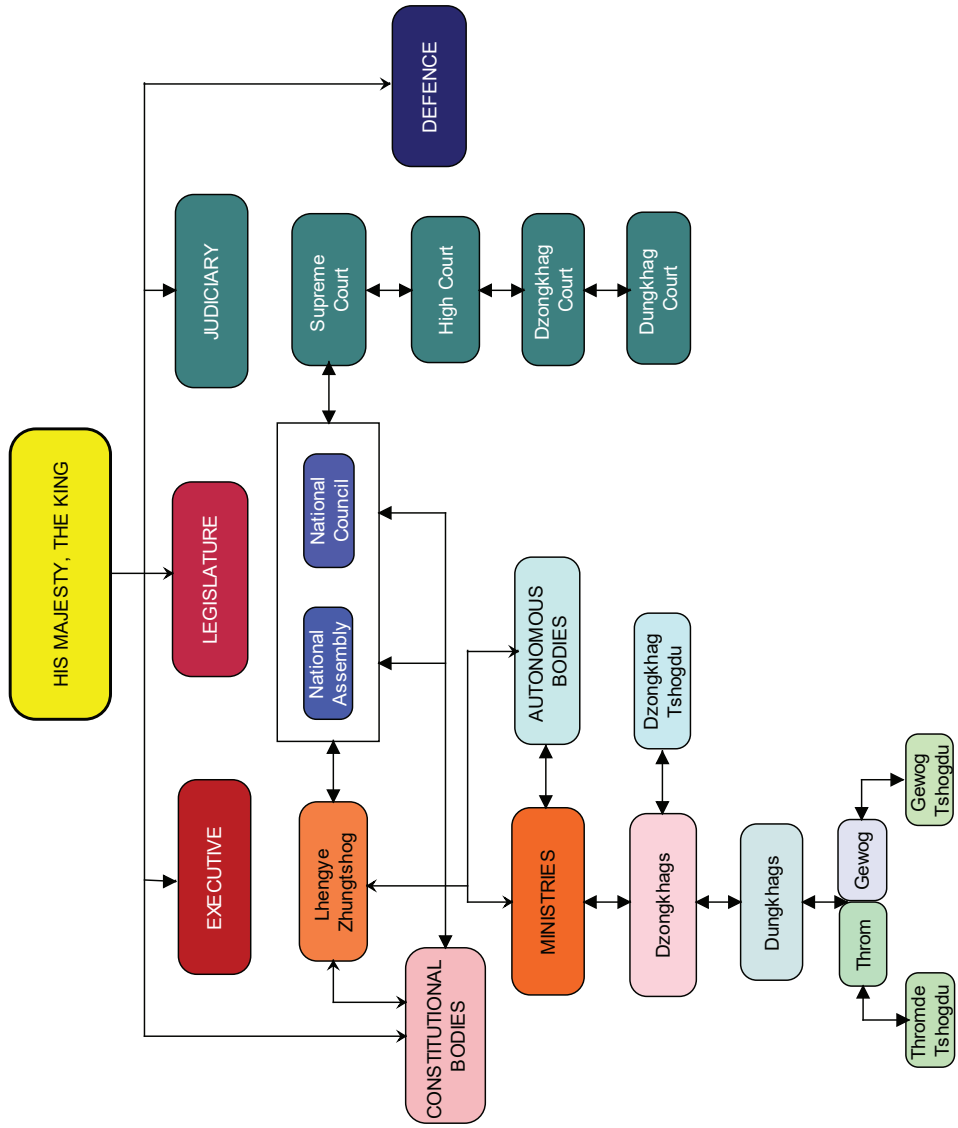


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PREFACE

This Statistical Yearbook of Bhutan (SYB) 2016 publication is the 34th edition. It is a comprehensive and systematic compendium of basic statistical information on the country's socio-economic conditions.

The SYB is expected to serve as the principal source of information for planners, policy makers, researchers and academicians both within and outside Bhutan. The compilation is based on information gathered through periodic statistical censuses and surveys, as well as from administrative data maintained by various ministries, agencies, corporations and private organizations. This publication is also available through electronic services at www.nsb.gov.bt

Every effort has been made to ensure that this publication meets acceptable statistical standards. Data validation, compilation and updating protocols have been strictly observed with all the data disseminating/providing agencies. New data series on topics of interest are included as and when available. Brief explanatory notes on coverage and data sources, wherever possible, have also been provided for the benefit of the users.

Therefore, the NSB would like to acknowledge the contribution of different ministries, agencies, corporations and private organizations that provided data and information for SYB 2016. In order to improve the quality of the forthcoming issues, we solicit comments and suggestions from the users of this yearbook.

Director General
National Statistics Bureau

NOTES FOR USERS

1. Unless otherwise indicated, the present issue of the Yearbook contains statistics available as of December, 2015.
2. For some tables, there are footnotes indicating information specific to each figure in the table.
3. The following notations are used in the tables:
 - ... not available/not applicable
 - () negative figures
 - CY** calendar year (from January to December)
 - FY** fiscal year (from July to June, example: 2014/15)
4. Detail figures in the tables may not add up to the totals because of rounding.
5. When contents of this book are to be quoted or copied in other publication/report, please give due credit by referring the title of this yearbook (Example) **Source: *Statistical Yearbook of Bhutan 2016, National Statistics Bureau.***
6. For additional information on data or for any other queries, please refer to the original source or National Statistics Bureau.

II. Metric Units

100 square mm	=	1 square cm
100 square cm	=	1 square dm
100 square dm	=	1 square m
100 square m	=	1 acre
100 square acres	=	1 hectare
100 hectares	=	1 square km

III. Conversion from British to Metric Units (Area)

1 square yard	=	0.836 square m
1 square feet	=	0.093 square m
1 square inch	=	6.452 square cm
1 square m	=	1.196 square yard
1 square cm	=	0.155 square inch
1 square mile	=	2.590 square km
1 square km	=	0.386 square mile

C. Weight Measurements

I. British Units

16 dram	=	1 ounce
16 ounces	=	1 pound
112 pounds	=	1 cwt (hundredweight)
20 cwt	=	1 ton
14 pounds	=	1 stone

II. Metric Units

10 mg	=	1 cg
10 cg	=	1 dg
10 dg	=	1 g
10 g	=	1 dkg
10 dkg	=	1 hg
10hg	=	1 kg
100 kg	=	1 quintal
200 m	=	1 carat

III. Conversion from British to Metric Units

1 grain	=	0.0648 g
1 ounce	=	31.103 g
1 g	=	15.432 grains
1 pound	=	0.373 kg
1 tone	=	1.016 metric tones

D. Conversion of Air Temperatures

I. Degree Celsius to degree Fahrenheit.

$(9 \times T)/5 + 32$, where "T" is temperature in degree Celsius.

II. Fahrenheit to degree Celsius.

$5 \times (T - 32)/9$, where "T" is temperature in Fahrenheit.

KEY FACTS ABOUT BHUTAN

Land Area (Sq. km)	38,394
Forest Cover (percent)	70.5%
Projected Population (in nos.), 2016	768,577
Natural Population Growth Rate (percent), PHCB 2005	1.3
Average Household Size, (BMIS, 2010)	4.6
National Language	Dzongkha
National Currency	Ngultrum (Nu.)
Number of Hospitals, 2015	31
Number of Doctors, 2015	251
Number of Civil Servants, (as of 31st December 2015)	26,611
Number of Schools, Institutes and Centers, 2015	2,065
Number of Teachers, Lecturers, Instructors & Trainers, 2015	10,532
Number of Students (Including Institutes & NFE), 2015	215,170
Labour Force Participation Rate, (LFS 2015)	63.1
Unemployment Rate, (LFS 2015)	2.5
Telephone Sets in Use, 2015	21,460
B-Mobile Subscriber (Nos.), 2015	486,228
Tashicell Subscriber (Nos.), 2015	189,805
Postal Infrastructure (Nos.), 2015	116
Total Road Length (Km.), June 2016	11,177
Number of Registered Vehicles, 2015	75,190
Electricity Generation (MU), 2015	7,747.17
Electricity Exports (MU), 2015	5,721.12
Tourist Arrivals (dollar paying tourist), 2015	54,651
Revenue Earned from Tourism (million US \$), 2015	71.05
Total Industrial Establishments, 2015	54,904
Balance of Trade (million Nu.), 2015	(32,808.00)
Exchange Rate (Calendar Year), Nu. Per US \$, 2015	64.14
Gross International Money Reserves (million US \$), 2014/15	958.45
Total Eleventh Plan Budgetary Outlay (million Nu.) 2013-2018	213,291.46
GDP at Current Price (million Nu.), 2014/15	132,021.30
Annual Average Inflation Rate (percent), 2015	4.58
Purchasing Power of Nu. 2015 (Base Year =2012)	82.58

Location and Extent

Bhutan is a small and landlocked country, situated between China (*Tibet*) and India. It has an area of 38,394 square kilometers. It has east-west dimension (longest) stretching around 300 kilometers and 170 kilometers at its maximum north-south dimension. Bhutan is located in the eastern Himalayas and is mostly mountainous and heavily forested. It shares 470 kilometers long border with Tibet (*China's Xizang Autonomous Region*) in the north and northwest, 605 kilometers with the Indian state of Sikkim in the west, West Bengal in the southwest, Assam in the south and southeast, and Arunachal Pradesh in the east.

About 70 percent of the Kingdom is covered with forests; 7 percent with year-round snow and glaciers; nearly 3 percent is cultivated or agriculture areas; and 4 percent as meadows and pastures, while rest of the land is either barren, rocky or scrubland.

Relief and Surface Features

Bhutan is one of the most rugged mountain terrains in the world. It has elevations ranging from 160 meters to more than 7,000 meters above sea level. Bhutan's highest peak Jhomo Lhari, overlooking the Chumbi Valley in the west, is 7,314 meters above sea level.

In the north, the snowcapped Great Himalayan Range reaches heights of over 7,500 meters above sea level and extends along the Bhutan-China border. The northern region consists of an arc of glaciated mountain peaks with an arctic climate at the highest elevations. Alpine valleys in this region provide pasturage for livestock tended by a sparse population practicing transhumance.

The Inner Himalayas are southward spurs of the Great Himalayan Range. The Black Mountains, in central Bhutan, form a watershed between two major river systems, the Mo Chhu and the Drangme Chhu. Peaks in the Black Mountains range between 1,500 meters and 2,700 meters above sea level, and the fast-flowing rivers have carved out spectacular gorges in the lower mountain areas. The woodlands of the central region provide most of Bhutan's valuable forest production. Eastern Bhutan is divided by yet another southward spur. Western Bhutan has fertile, cultivated valleys and terraced river basins.

In the south, the Southern Hills, or Siwalik Hills, the foothills of the Himalayas, are covered with dense deciduous forest, alluvial lowland river valleys, and mountains that reach to around 1,500 meters above sea level. The foothills descend into the subtropical plain.

Climate and Vegetation

The country is divided into three distinct climatic zones: alpine, temperate and subtropical zone. Bhutan's climate is as varied as its altitudes and, like most of Asia, it is affected by the monsoons. The climate is humid and subtropical in the southern plains and foothills, temperate in the inner Himalayan valleys of the central regions, and cold in the north, with year-round snow on the main Himalayan range.

Temperatures vary according to elevation. Most of the central portion of the country experiences a cool, temperate climate year round. In the south, a hot, humid climate helps maintain a fairly even temperature range of between 15° C and 30° C year-round, although temperatures sometimes reach beyond 35° C in the valleys during the summer.

Annual precipitation ranges widely in various parts of the country. In the severe climate of the north, there is only about forty millimeters of annual precipitation--primarily snow. In the temperate central regions, a yearly average of around 1,000 millimeters is more common, and 7,800 millimeters per year has been registered at some locations in the humid, subtropical south, ensuring the thick tropical forest. Thimphu experiences dry winter months (December through February) and almost no precipitation until March, when rainfall averages 20 millimeters a month and increases steadily thereafter to a high of 220 millimeters in August for a total annual rainfall of nearly 650 millimeters. Bhutan's generally dry spring starts in early March and lasts until mid-April. Summer weather commences in mid-April with occasional showers and continues through the early monsoon rains of late June. The summer monsoon lasts from late June through late September with heavy rains from the southwest. The monsoon weather, blocked from its northward progress by the Himalayas, brings heavy rains, high humidity, flash floods and landslides, and numerous misty, overcast days. Autumn, from late September or early October to late November, follows the rainy season. It is characterized by bright, sunny days and some early snowfalls at higher elevations. From late November until March, winter sets in, with frost throughout much of the country and snowfall common above elevations of 3,000 meters. The winter northeast monsoon brings gale-force winds down through high mountain passes.

There is a pronounced difference in the vegetation cover in three different zones of the country and it is mostly due to the prevalence of varied climatic conditions across the kingdom. The southern foothills are mostly covered by the dense and thick deciduous trees while the inner regions are dotted by an infinite variety of plants, flowers and trees including birch, pine, chestnut, oak, apples, peaches and plums are also grown in the fertile valleys. The northern part with the tundra type of climate allows the growth of coniferous trees and other alpine growths like magnolia, rhododendrons, birch, fir, spruce etc... The vegetation is overall expression of various ecological factors, and it is one of the basic analytical tools for developing and understanding the mountain environment.

Drainage Pattern

Fed by fresh snow each winter and slow melting in the summer, the glaciers bring millions of liters of fresh water to Bhutan and downriver areas each year. Bhutan has four major river systems: the Drangme Chhu; the Puna Tsang Chhu; the Wang Chhu; and the Amo Chhu. Each flows swiftly out of the Himalayas, southerly through the Duars to join the Brahmaputra River in India. The largest river system, the Drangme Chhu, flows southwesterly from India's state of Arunachal Pradesh and has three major tributaries: the Drangme Chhu, Mangde Chhu, and Chamkhar Chhu. These rivers form the Drangme Chhu basin. In the Duars, where eight tributaries join, the Drangme Chhu is called the Manas Chhu. The 320-kilometer-long Puna Tsang Chhu rises in northwestern Bhutan as the Mo Chhu and Pho Chhu, which are fed by the snows and glaciers from the Great Himalayan Range. They flow southerly to Punakha, where they join to form the Puna Tsang Chhu, which flows southerly into India's state of West Bengal. The Wang Chhu, which is 370 kilometers flows southeasterly through west-central Bhutan, drains the Ha, Paro, and Thimphu valleys, and continues through the foothills, before it finally drains into West Bengal. The smallest river system, the Torsa Chhu, known as the Amo Chhu in its northern reaches, flows swiftly through western Bhutan before broadening near Phuntsholing and then flowing into India. Glaciers in northern Bhutan, which cover about 10 percent of the total surface area, are an important renewable source of water for Bhutan's rivers.

Government

On 17th December 1907, the civil and monastic representatives unanimously crowned Ugyen Wangchuck as the first hereditary monarch of Bhutan. It was the strength and the farsightedness of Ugyen Wangchuck that for the first time Bhutan was united under a central authority providing the country with stability and opportunity for development. In 1926 his son Jigme Wangchuck succeeded Ugyen Wangchuck. The third Druk Gyalpo, Jigme Dorji Wangchuck began a campaign of modernization and expansion of Bhutan's government and society based on the accomplishments of his two predecessors in uniting the country under a strong central authority. Hence, the National Assembly consisting of representatives of the people, the Monastic order and civil administration was established in 1953.

The fourth Druk Gyalpo, Jigme Singye Wangchuk became the King in 1972. There had been steady decentralization of decision-making and institute building since then. His Majesty's philosophy of Gross National Happiness guided Bhutan into the 21st century. The most momentous change in the structure of the government came in 1998 after the devolution of the executive power by His Majesty the King to the Council of Ministers. The Fourth Druk Gyalpo initiated the drafting of Bhutan's first Constitution in 2001 and was eventually enacted in 2008. The King abdicated the throne in favour of the crown prince in 2006.

The fifth Druk Gyalpo, His Majesty King Jigme Khesar Namgyel Wangchuck acceded to the throne on December 14, 2006 and was crowned on November 6, 2008. The head of government is the Prime Minister, who is elected from the ruling political party.

Administrative System

The administrative system in the country consists of Central Government and Local Government. The Central Government comprises of Ministries, Departments and Autonomous bodies. The Local Government comprises of Dzongkhag Tshogdu, Gewog Tshogde and the Dzongkhag Thromde Tshongde.

In order to plan and review the development activities most efficiently in the Dzongkhag, the Dzongkhag Tshogdu was established in 1981. The Dzongkhag Tshogdu comprises of elected representatives of the people with its chairman elected among the Gups. Similarly, the Gewog Tshogde was established in 1991 to further decentralize the decision making process. The Gewog Tshogde comprises of Gup, Mangmi and Tshogpas. The main role of the Gewog Tshogde is to plan, prioritize and implement the developmental activities in their respective Gewogs.

The National Assembly

The National Assembly (Gyelyong Tshogdu) consists of 47 members who are elected representatives from the 47 Constituencies. The main functions of the National Assembly are to enact, amend or repeal laws and approve the national budget. The National Assembly also reviews and approves the Five Year Plans which are formulated by the government in consultation with the people of every Dzongkhag. It also deliberates on issues that affect the security and well-being of the country and promotes the welfare and happiness of the people. The National Assembly meets twice a year. However, if an important and emergency matter demands, special sessions of the National Assembly may be convened by the speaker. The duration of the National Assembly session is governed by the nature and scope of the points for discussion received from the people. A session normally lasts about three weeks. The speaker is the presiding officer of the House and is assisted by a Deputy Speaker. The day to day administration of the National Assembly rests with the secretariat which is headed by a secretary.

The National Council

The National Council was established in 2008 under Article 11 of the Constitution of Bhutan. There are 25 members of which 20 are elected by the people from 20 Dzongkhags and the remaining 5 are nominated by His Majesty, the Druk Gyalpo. Their tenure is for five years which commences from the date of the first sitting. The main functions of the National Council are to:

- i. Ensure that the government safeguards the interest of the nation and fulfills the aspirations of the people through public review of policies and issues, bills and other legislation, and scrutiny of state functions.
- ii. Act as the house of review on matters affecting the security and sovereignty of the country and the interests of the nation and people that need to be brought to the notice of His Majesty, the Druk Gyalpo, the Prime Minister and the National Assembly.

The National Council meets twice a year. However, special sessions may also be convened depending upon the needs. The chairperson, who is elected from 25 members of the National Council is the Presiding Officer of the House, and is assisted by a Deputy Chairperson. The National Council has seven working committees; namely the *House Committee, the Legislative Committee, the Economic Affairs Committee, the Social & Cultural Affairs Committee, the Natural Resources and Environment Committee, the Good Governance Committee and the Foreign Relation Committee*. Each committee has a minimum of seven members headed by a Chairperson who is elected from the seven members. The National Council is assisted in the discharge of its parliamentary functions by a secretariat which is headed by a Secretary General.

The Monastic Body

The Monastic Body comprises of the Central Monastic Body and the Rabdeys (Dzongkhag Monastic Body). The Central Monastic Body receives annual subsidy from the Government to manage and run its day to day affairs. The Monastic Body is the sole arbiter on religious matters. The Je-Khenpo (Chief Abbot) is the head of the monastic body and is responsible for the nation's religious affairs. He is chosen from among high ranking monks. Apart from being thoroughly versed in all branches of religious scholarship and practice, the candidate must also have undergone prolonged mediation. The present Je-Khenpo Trulku Jigme Chhoeda is the 70th in succession. He was appointed in 1996.

The Je-Khenpo is assisted by five high-ranking Lopens (Masters) viz. Dorji Lopen *acts as Deputy Je-Khenpo and the Chief of all Lopens (Masters)*, Yangbi Lopen *heads the liturgical division inclusive of Sacred Dances, Rituals Arts, and Metrical Ryhme*, Drabi Lopen *heads Lexicographical division that includes literature, grammar, lexicon, metrics and prosody*, Tshenyi Lopen *heads the division of Metaphysics and Logic* and Tsugla Lopen *is responsible for the higher studies of the monastic Body*. There are also monastic bodies in the Dzongkhags headed by Lam Neeten. He is assisted by Umzey, Kudrung and the lopens (teachers) of different areas.

The interpretations of demographic indicators are:

Crude Birth Rate:	Number of live births in a year per thousand population.
General Fertility Rate:	Number of live births in a year per thousand women in the childbearing age (15 to 49).
General Marital Fertility Rate:	A ratio of number of births to 1000 married women in the reproductive ages.
Total Fertility Rate:	Average number of children born by women during their reproductive span of life.
Gross Reproductive Rate:	Measures the extent to which a cohort of newly born girls will replace their mothers under pre-determined schedules of fertility and mortality.
Crude Death Rate:	Number of deaths in a year per thousand population.
Infant Mortality Rate:	Number of deaths during first year of life per thousand live births.
Maternal Mortality Ratio:	The annual number of deaths of women from pregnancy-related causes per 100,000 live births.
Rate of Natural Increase:	The difference between the crude birth rate and the crude death rate.
Dependency Ratio:	Measures the number of dependents as a percentage of population aged 15 to 64. Child dependency refers to children aged 0 to 14 years, while old age dependency refers to persons aged 65 and over.
Index of Aging:	It is the number of persons aged 65 and over as a percentage of the number of persons aged 0 to 14.

Table 1.3: Crude Birth Rate by Area and Dzongkhag, 2005

Dzongkhag	Urban	Rural	Both
Bumthang	21.2	16.5	17.7
Chhukha	16.6	16.9	16.8
Dagana	18.6	24.5	23.8
Gasa	24.9	22.8	23.1
Haa	16.4	17.9	17.6
Lhuentse	13.6	21.6	20.9
Monggar	19.6	23.1	22.4
Paro	20.5	16.5	16.8
Pema Gatshel	23.9	17.3	18.3
Punakha	12.7	20.5	19.8
Samdrup Jongkhar	28.5	18.4	21.4
Samtse	21.2	19.4	19.7
Sarpang	20.9	17.2	19.5
Thimphu	19.1	17.2	19.8
Trashigang	21.5	24.5	24.0
Trashigang	21.5	21.8	21.3
Trongsa	19.3	24.5	21.8
Tsirang	32.4	19.4	20.6
Wangdue Phodrang	23.3	20.1	20.9
Zhemgang	14.8	21.5	20.3
Bhutan	19.6	19.8	19.7

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.7: Natural Population Growth Rate by Area and Dzongkhag, 2005

Dzongkhag	Urban	Rural	Both
Bumthang	1.6	0.9	1.1
Chhukha	1.1	0.9	1.0
Dagana	1.4	1.7	1.6
Gasa	1.3	1.1	1.2
Haa	1.2	1.0	1.0
Lhuentse	1.1	1.3	1.3
Monggar	1.6	1.5	1.5
Paro	1.0	1.0	1.0
Pema Gatshel	2.0	0.9	1.0
Punakha	0.8	1.3	1.2
Samdrup Jongkhar	2.3	1.2	1.5
Samtse	1.3	1.2	1.2
Sarpang	1.7	1.3	1.4
Thimphu	1.4	0.9	1.3
Trashigang	1.4	1.2	1.3
Trashi Yangtse	1.3	1.5	1.5
Trongsa	1.7	1.3	1.4
Tsirang	2.8	1.3	1.4
Wangdue Phodrang	1.8	1.2	1.3
Zhemgang	1.2	1.4	1.4
Bhutan	1.4	1.2	1.3

Source: Socio-Economic and Demographic Indicators 2005, NSB

Guided by the national development philosophy of Gross National Happiness, the health sector envisions building “a healthy and happy nation through a dynamic professional health system with attainment of highest standard of health for the people within the broader framework of overall national development, in the spirit of social justice and equity.”

Since the early years (1960s) of the introduction of modern health care development in Bhutan (Allopathic), the health programmes and interventions have focused on the preventive aspects of health care and services including, the prevention of morbidity, the promotion of positive determinants of health, and the control of infectious disease. These measures were further being reinforced after being signatory to the Alma Ata declaration in 1978.

There have been a continuous efforts and remarkable strides in improving the modern health care systems and services since then. The Ministry of Health has now a wide spread network of Health Facilities covering around 95 percent of the total population within three hours walking distance of the health facility. Institutional health facilities were earlier concentrated in the urban agglomerated centers, but today the emphasis has shifted to the rural areas where the majority of the population live.

Health Care is delivered in a totally integrated three-tiered system with National Referral Hospital at the apex, regional referral hospitals, district hospitals, and Basic Health Units (BHUs) at the Community Level. BHUs serve remote populace and are staffed by well-trained health personnel who are equipped to treat minor ailments and advice on preventive measures to avoid the spread of communicable diseases. Extended Health Centers such as Out Reach Clinics (ORCs) and Sub-posts support these BHUs.

There are also a number of special health programs in Bhutan administered by the Ministry of Health. These mainly cover Expanded Program on Immunization (EPI), Reproductive Health (RH), Acute Respiratory Infection (ARI) later upgraded to Integrated Management of Neonatal and Childhood Illness (IMNCI), National HIV/AIDS & STIs Control Program (NACP), National Tuberculosis Control Program (NTCP), National Leprosy Program, Rural Water Supply & Sanitation Program (RWSS), Village Health Workers Program (VHW), Vector Borne Disease Control Program (VDCP), Mental Health Program, among others.

Table 2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2015

(Numbers)

Diseases	2015
Alcohol Liver Diseases	158
Other Circulatory Diseases	112
Other Respiratory & Nose Diseases	118
Other Infections (excluding ear, brain, STI)	91
Other Diseases of the Digestive System	67
Pneumonia	63
Other Kidney, UT/ Genital Disorders	59
Other Cancers	100
Neonatal Death	17
Meningitis/Encephalitis	33

Source: Annual Health Bulletin 2015, MoH, Thimphu.

Table 3.2: Number of Schools, Institutes & Centres, Bhutan 2015

School/Institutes/Centres	Government	Private	Total
ECCD Centre	198	53	251
Primary School	318	14	332
Lower Secondary School	77	1	78
Middle Secondary School	69	2	71
Higher Secondary School	40	18	58
Extended Classroom	96	...	96
Central Schools	24	...	24
Special Institute ¹	10	1	11
Tertiary Institutes	12	1	13
Technical Institutes	8	0	8
Sanskrit Patshala	1	...	1
Monastic Education (Lobdra, Shedra, etc)	388	...	388
Continuing Education Centres	3	10	13
Non-Formal Centres	721	...	721

Note : ¹Muenselling and Wangsel Institutes including 8 schools offering special education
Source: Annual Education Statistics, MoE.

Table 4.2 cont...

AGENCY	REGULAR			CONTRACT			GRAND TOTAL	% Against Grand Total
	Bhutanese	Non- Bhutanese	Total	Bhutanese	Non- Bhutanese	Total		
Sarpang	747	1	748	17	19	36	784	2.95%
Thimphu	409		409	8	5	13	422	1.59%
Trashigang	486	1	487	20	4	24	511	1.92%
Trongsa	1,141		1,141	37	38	75	1,216	4.57%
Tsirang	425		425	13	4	17	442	1.66%
Wangdue Phodrang	516		516	13	3	16	532	2.00%
Zhemgang	760		760	17	10	27	787	2.96%
	564		564	30	5	35	599	2.25%
THROMDES								
Thimphu	1,161		1,161	10	55	65	1,226	4.61%
Phuentsholing	276		276	3	26	29	305	1.15%
Gelephu	195		195		10	10	205	0.77%
Samdrup Jongkhar	130		130	3	8	11	141	0.53%
NON-CIVIL SERVICE AGENCIES								
Defence ²	20		20				20	0.08%
Corporations	15		15				15	0.06%
Non-Government Organizations	4		4				4	0.02%
International Organizations	2		2				2	0.01%
Grand Total	25,496	21	25,517	685	409	1,094	26,611	100.00%

Note : ¹ Figures on ECB are based on information available with RCSC.

² Finance and Accounts staff placed in RBG/RBA/RBP

Source: Civil Service Statistics, December 2015, RCSC.

Table 4.3: Employment in Civil Servants by Type, Position Category & Sex, Bhutan, 2015

Position Category	Regular						Total Regular		
	Bhutanese			Non-Bhutanese				Male	
	Male	Female	Total	Male	Female	Total			
Executive Position Category									
Constitutional Offices ¹	3	2	5				5		
EX1	27	1	28				28		
EX2	46	2	48				48	2	
EX3	55	7	62				62	2	
Total	131	12	143				143	4	
Specialist Position Category									
ES1	1	1	2				2		
ES2	26		26				26	1	
ES3	60	13	73	1		1	74		
Total	87	14	101	1		1	102	1	
Professional & Management Position Category									
P1	525	133	658				658	7	
P2	957	367	1,324	2		2	1,326	6	
P3	1,438	773	2,211	3		3	2,214	7	
P4	3,014	1,731	4,745	1		1	4,746	13	
P5	3,076	1,644	4,720	1	3	4	4,724	29	
Total	9,010	4,648	13,658	7	3	10	13,668	62	
Supervisory & Support Position Category									
S1	1,540	884	2,424	2	2	4	2,428	124	
S2	1,450	772	2,222				2,222	21	
S3	1,074	695	1,769	2	1	3	1,772	4	
S4	1,114	914	2,028	2		2	2,030	25	
S5	525	624	1,149	1		1	1,150	152	
Total	5,703	3,889	9,592	7	3	10	9,602	326	
Operational Position Category									
O1	592	128	720				720	3	
O2	340	62	402				402	18	
O3	308	87	395				395		
O4	456	29	485				485	46	
Total	1,696	306	2,002				2,002	67	
Grand Total	16,627	8,869	25,496	15	6	21	25,517	460	

Note : ¹ Eminent members of the Parliament & Attorney General are summed up with Executive Position Category.

Source: Civil Service Statistics, December 2015, RCSC.

Contract						Total Contract	Total Male	Total Female	Grand Total
Bhutanese		Non-Bhutanese							
	Female	Total	Male	Female	Total				
							3	2	5
							27	1	28
		2				2	48	2	50
		2				2	57	7	64
		4				4	135	12	147
		1				1	1	1	2
							27		27
			1		1	1	62	13	75
		1	1		1	2	90	14	104
		7	2	1	3	10	534	134	668
		6	10	3	13	19	975	370	1,345
	1	8	45	18	63	71	1,493	792	2,285
	9	22	150	53	203	225	3,178	1,793	4,971
	22	51	64	48	112	163	3,170	1,717	4,887
	32	94	271	123	394	488	9,350	4,806	14,156
	110	234	5	3	8	242	1,671	999	2,670
	2	23				23	1,471	774	2,245
	3	7				7	1,080	699	1,779
	4	29		2	2	31	1,141	920	2,061
	54	206	1		1	207	679	678	1,357
	173	499	6	5	11	510	6,042	4,070	10,112
		3	1		1	4	596	128	724
	17	35				35	358	79	437
							308	87	395
	3	49	2		2	51	504	32	536
	20	87	3		3	90	1,766	326	2,092
	225	685	281	128	409	1,094	17,383	9,228	26,611

Table 4.4: Percentage Distribution of Employed Persons by Major Economic Activity and Sex, Bhutan, 2015

Major Economic Activity	Male	Female	Total
Agriculture & Forestry	27.5	30.5	58.0
Mining & Quarrying	0.5	0.1	0.6
Manufacturing	2.8	3.7	6.5
Electricity, Gas & Water Supply	0.6	0.2	0.8
Construction	1.5	0.3	1.8
Wholesale & Retail Trade	3.2	4.6	7.8
Hotels & Restaurants	1.1	1.2	2.3
Transport, Finance & Communications	3.3	0.3	3.7
Financial Intermediation	0.5	0.2	0.7
Real Estate, Renting & Business Activities	0.7	0.3	0.9
Public Administration & Defence	7.4	1.8	9.2
Education	1.7	1.6	3.3
Health & Social Work	2.9	1.1	4.0
Private Households with Employed persons	0.0	0.5	0.6
Total	53.6	46.4	100.0

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2015

Major Occupation	Male	Female	Total
Legislators, Senior Officials & Managers	1.6	0.4	2.0
Professionals	5.8	2.8	8.7
Technicians & Associate Professionals	2.4	1.2	3.6
Clerks	1.6	1.1	2.6
Service workers & Shop & Market Sales workers	3.2	5.4	8.7
Skilled Agricultural & Fishery workers	27.5	30.5	58.0
Craft & Related workers	2.1	3.3	5.5
Plant & Machine Operators & Assemblers	4.3	0.1	4.4
Elementary Occupations	2.0	1.4	3.4
Armed Forces	3.0	0.1	3.2
Total	53.6	46.4	100.0

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2015

Nature of Employment	Male	Female	Total
Regular paid employee	16.6	6.5	23.1
Casual paid employee	2.1	0.5	2.7
Contract/Piece paid employee	1.0	0.3	1.3
Own account worker (Non agriculture)	6.0	6.2	12.3
Own account worker (Agriculture)	14.7	10.4	25.1
Family worker (Non-agriculture)	0.7	2.5	3.2
Family worker (Agriculture)	12.5	19.9	32.4
Total	53.6	46.4	100.0

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.7: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2015

Age	Labour Force participation rate			Unemployment rate			Employment rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	9.1	10.5	9.9	4.8	7.2	6.2	95.2	92.8	93.8
20-24	53.6	58.5	56.2	9.0	14.0	11.8	91.0	86.0	88.2
25-29	90.1	69.8	78.8	5.2	5.8	5.5	94.8	94.2	94.5
30-34	95.2	75.7	84.7	1.8	2.0	1.9	98.2	98.0	98.1
35-39	96.7	75.7	85.6	0.1	0.5	0.3	99.9	99.5	99.7
40-44	98.0	73.5	84.8	0.1	0.3	0.2	99.9	99.7	99.8
45-49	98.9	80.1	89.1	0.2	0.3	0.2	99.8	99.7	99.8
50-54	95.8	82.7	89.2	0.0	0.1	0.1	100.0	99.9	99.9
55-59	77.9	49.6	63.7	0.2	0.2	0.2	99.8	99.8	99.8
60-64	74.8	33.7	52.9	0.0	0.2	0.1	100.0	99.8	99.9
65+	44.5	23.1	34.2	0.0	0.0	0.0	100.0	100.0	100.0
Total	71.2	55.9	63.1	1.8	3.1	2.5	98.2	96.9	97.5

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.8: Total Employed Persons by Age Group and Completed Level of Education, Bhutan, 2015

Age	Level of Education											Total
	No formal education	Nursery	Primary	Lower Secondary	Middle Secondary	Higher Secondary	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	
15-19	2,800	79	2,160	780	1,213	160	0	0	226	98	0	7,516
20-24	9,037	158	3,340	2,723	6,596	4,574	908	13	1,801	797	0	29,947
25-29	13,516	0	4,520	4,299	7,689	8,193	6,451	114	3,121	1,453	79	49,435
30-34	19,643	79	5,442	3,351	5,774	4,810	4,212	479	2,743	837	0	47,371
35-39	25,447	0	5,795	2,550	4,840	2,403	2,791	525	2,060	866	0	47,276
40-44	25,723	67	3,886	1,564	1,948	973	1,087	631	1,871	916	0	38,666
45-49	26,494	85	3,209	1,565	1,596	677	778	236	1,332	1,039	0	37,011
50-54	25,341	0	1,646	1,493	591	319	391	280	1,034	1,309	0	32,403
55-59	17,686	0	993	215	267	143	170	219	428	1,068	0	21,189
60-64	13,215	0	980	218	475	196	223	83	197	333	0	15,919
65+	16,285	0	421	79	33	141	13	13	0	574	0	17,559
Total	195,185	469	32,391	18,836	31,023	22,589	17,024	2,592	14,813	9,290	79	344,293

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.9: Number of Persons Employed by Age Group, Type of Enterprise & Sex, Bhutan, 2015

Age	Civil Service		Other Govern- ment Agencies		Public/ Government Owned Companies		Private Companies		Male
	Male	Female	Male	Female	Male	Female	Male	Female	
15-19	0	0	0	0	13	0	213	212	0
20-24	295	712	329	212	484	528	1,437	1,063	305
25-29	3,101	3,134	708	593	1,859	1,197	3,555	1,623	1,053
30-34	2,979	2,307	2,148	980	1,247	880	2,174	1,061	2,697
35-39	3,373	1,438	1,517	709	1,733	660	1,987	377	2,347
40-44	1,756	563	1,300	186	1,143	325	1,556	247	1,917
45-49	1,870	352	962	126	1,381	40	1,023	92	1,459
50-54	1,155	134	1,500	204	925	26	664	26	298
55-59	573	174	628	18	236	37	143	56	136
60-64	251	0	181	68	13	0	253	0	13
65+	13	0	421	0	0	0	13	0	13
Total	15,366	8,813	9,692	3,097	9,033	3,692	13,018	4,756	10,239

Source: Labour Force Survey Report 2015, MoLHR.

	Armed Forces	Private Business		Agri. Farming		NGO/INGO		Total		Grand total
	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	18	402	698	2,678	3,282	0	0	3,306	4,210	7,516
	172	2,381	4,191	8,483	9,330	13	13	13,727	16,221	29,948
	90	5,355	6,615	9,191	11,037	284	38	25,106	24,327	49,433
	117	5,138	5,178	7,958	12,371	92	44	24,433	22,938	47,371
	90	5,112	6,390	9,173	12,286	51	35	25,293	21,985	47,278
	35	3,564	3,917	9,354	12,763	13	26	20,603	18,062	38,665
	16	2,971	3,169	10,003	13,533	0	13	19,669	17,341	37,010
	0	2,368	1,706	10,220	13,127	26	26	17,156	15,249	32,405
	0	1,937	900	9,242	7,097	13	0	12,908	8,282	21,190
	0	1,357	502	8,443	4,839	0	0	10,511	5,409	15,920
	0	1,459	411	9,945	5,285	0	0	11,864	5,696	17,560
	538	32,046	33,678	94,689	104,951	492	194	184,574	159,719	344,293

Table 4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2015

Dzongkhag	Level of Education					
	No formal education	Nursery	Primary	Lower Secondary	Middle Secondary	Higher Secondary
Bumthang	4,245	0		796	637	258
Chukha	14,816	18	710	3,017	4,797	3,422
Dagana	6,310	0	4,218	967	1,638	454
Gasa	1,690	0	2,433	148	5	19
Haa	5,184	0	79	126	380	183
Lhuntse	3,588	134	126	561	620	410
Mongar	11,967	317	695	1,219	1,237	1,026
Paro	7,594	0	2,068	1,606	2,806	1,731
Pemagatshel	8,815	0	1,846	614	770	836
Punakha	10,473	0	1,006	679	1,126	1,009
Samdrup Jongkhar	10,769	0	991	620	813	1,345
Samtse	24,821	0	999	2,602	3,235	1,530
Sarpang	15,962	0	4,915	1,087	2,155	1,731
Thimphu	13,361	0	2,008	3,138	7,184	6,937
Tashigang	12,554	0	5,028	116	614	212
Tashiyangtse	6,723	0	758	43	608	57
Trongsa	5,244	0	150	192	477	121
Tsirang	5,362	0	463	588	362	230
Wangdue	16,752	0	1,857	635	1,036	655
Zhemgang	8,957	0	1,824	82	522	421
Total	195,185	469	32,391	18,836	31,023	22,589

Source: Labour Force Survey Report 2015, MoLHR.

	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	Total
	103	17	249	221	0	7,236
	2,499	220	1,158	840	0	35,006
	761	0	280	163	0	13,006
	15	0	74	148	0	2,178
	68	70	660	579	0	7,377
	185	0	415	292	0	6,901
	319	15	2,096	864	0	21,125
	1,062	170	496	752	0	18,063
	823	13	1,920	418	0	15,214
	474	105	676	874	0	16,407
	337	0	1,956	593	0	17,433
	991	83	186	235	0	38,599
	675	126	588	270	79	24,682
	7,457	1,721	321	475	0	45,621
	266	0	500	321	0	15,341
	86	0	0	408	0	8,075
	144	12	969	248	0	7,871
	170	0	512	0	0	9,080
	328	13	875	1,109	0	23,228
	261	27	883	481	0	11,849
	17,024	2,592	14,813	9,290	79	344,293

Table 4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2015

Major Economic Activity	Nature of Employment							Total
	Regular paid employee	Casual paid employee	Contract /piece paid worker	Own-account workers (Non-agriculture)	Own-account workers (Agriculture)	Family workers (Non-agriculture)	Family workers (Agriculture)	
Agriculture and forestry	246	999	418	0	86,393	0	111,584	199,640
Mining and quarrying	1,963	28	14	0	0	0	0	2,004
Manufacturing	8,137	1,488	327	10,260	0	2,111	0	22,323
Electricity, gas and water supply	1,793	28	862	12	0	0	0	2,695
Construction	3,171	907	1,086	980	0	96	0	6,241
Wholesale and retail trade	2,752	242	262	17,952	0	5,583	0	26,791
Hotels and restaurants	3,016	103	25	3,340	0	1,498	0	7,981
Transport and communications	4,498	1,715	186	6,046	0	157	0	12,603
Financial intermediation	2,277	0	224	0	0	0	0	2,501
Real estate, renting & business activities	1,446	82	49	1,534	0	73	0	3,185
Public administration & defense	30,745	506	256	0	0	0	0	31,507
Education	10,667	207	201	176	0	0	0	11,251
Health & social work	8,234	2,874	627	1,800	0	120	0	13,655
Private households with employed persons	427	55	67	79	0	1,288	0	1,915
Total	79,371	9,234	4,604	42,179	86,393	10,927	111,584	344,293

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and Area of Residence, Bhutan, 2015

Dzongkhag	Urban			Rural			Bhutan		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	137	86	223	187	124	311	324	210	534
Chhukha	92	37	128	472	67	540	564	104	668
Dagana	18	0	18	81	0	81	100	0	100
Gasa	0	0	0	0	0	0	0	0	0
Haa	11	0	11	139	0	139	150	0	150
Lhuntse	0	0	0	537	873	1,411	537	873	1,411
Monggar	29	29	58	2,851	475	3,326	2,880	504	3,384
Paro	123	35	158	85	170	256	208	205	413
Pema Gatsel	0	0	0	104	0	104	104	0	104
Punakha	0	0	0	372	0	372	372	0	372
Samdrup Jongkhar	0	0	0	0	0	0	0	0	0
Samtse	83	0	83	104	0	104	186	0	186
Sarpang	31	62	94	238	79	318	270	142	412
Thimphu	385	141	526	0	0	0	385	141	526
Trashigang	0	0	0	0	0	0	0	0	0
Trashi Yangtse	14	0	14	79	0	79	93	0	93
Trongsa	0	0	0	0	59	59	0	59	59
Tsirang	15	0	15	64	0	64	79	0	79
Wangdue Phodrang	13	7	20	0	0	0	13	7	20
Zhemgang	27	0	27	769	96	865	796	96	892
Total	979	397	1,376	6,083	1,945	8,028	7,062	2,342	9,405

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.13: Employed persons who worked per week by hours and by Major Economic Activity, Bhutan, 2015

Major Economic Activity	Total Hours Worked						Total	
	<30	30-39	40-49	50-59	60-69	70-79		80+
Agriculture and Forestry	9,448	18,278	63,641	52,346	23,408	23,641	8,878	199,640
Mining and Quarrying	28	232	1,324	315	92	13	0	2,004
Manufacturing	3,627	4,544	8,072	3,088	898	1,018	1,076	22,323
Electricity, Gas and Water Supply	28	321	1,870	318	68	57	33	2,695
Construction	153	756	2,492	1,333	449	752	306	6,241
Wholesale and Retail trade	711	1,800	6,960	6,073	2,478	4,049	4,720	26,791
Hotels and Restaurants	63	667	2,160	2,048	693	1,131	1,219	7,981
Transport, Finance and Communications	388	1,795	4,811	2,961	950	1,035	663	12,603
Financial Intermediation	55	1,002	1,238	164	9	0	33	2,501
Real Estate, Renting and Business Activities	629	687	1,029	429	56	175	180	3,185
Public Administration and Defense Activities	585	9,398	14,735	4,007	916	533	1,334	31,507
Education	398	2,637	6,516	1,051	364	98	187	11,251
Health and Social Work	590	4,118	6,431	1,116	310	659	430	13,655
Private Households with Employed Persons	127	244	771	478	55	7	233	1,915
Total	16,829	46,479	122,051	75,728	19,293	33,168	19,293	344,293

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.14: Employed persons who worked during the past one week by nature of employment and hours of work, Bhutan, 2015

Nature of Employment	Total Hours Worked						Total	
	<30	30-39	40-49	50-59	60-69	70-79		80+
Regular paid employee	1,103	19,650	40,100	10,462	2,854	2,238	2,964	79,371
Casual paid employee	1,010	2,157	2,538	2,214	347	762	206	9,234
Contract/piece paid worker	162	619	1,898	730	343	640	211	4,604
Own-account workers (Non-agriculture)	4,091	4,582	11,578	7,813	3,232	5,353	5,530	42,179
Own-account workers (Agriculture)	3,194	5,671	26,018	23,100	12,193	11,553	4,664	86,393
Family workers (Non-agriculture)	1,014	1,258	2,654	2,464	810	1,118	1,609	10,927
Family workers (Agriculture)	6,253	12,543	37,264	28,944	10,965	11,505	4,110	111,584
Total	16,829	46,479	122,051	75,728	30,746	33,168	19,293	344,293

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.15: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2015

Major Economic Activity					
	No formal education	Nursery	Primary	Lower Secondary	
Agriculture and forestry	147,965	384	16,189	7,991	
Mining and Quarrying	508	0	325	212	
Manufacturing	11,201	0	2,396	1,675	
Electricity, gas & water supply	472	0	179	302	
Construction	2,348	0	711	476	
Wholesale and retail trade	11,108	0	3,930	1,921	
Hotels & restaurants	2,798	0	778	497	
Transport communications	5,172	0	1,771	1,235	
Fincancial intermediation	128	0	106	75	
Real estate, renting & business activities	1,067	0	305	361	
Public Administration and defence	8,072	18	4,210	3,042	
Education	732	0	349	296	
Health and social work	2,452	67	966	599	
Private households with employed persons	1,162	0	175	155	
Total	195,185	469	32,391	18,836	

Source: Labour Force Survey Report 2015, MoLHR.

Completed Level of Education

	Middle Secondary	Higher Secondary	Bachelors Degree	Masters Degree & Above	NFE	Religious Pro- fessionals	Don't know	Total
	7,569	2,900	195	13	11,901	4,454	79	199,640
	328	347	117	93	74	0	0	2,004
	3,240	1,403	938	44	1,222	205	0	22,323
	845	642	133	0	0	123	0	2,695
	1,074	726	591	72	81	162	0	6,241
	4,389	3,101	1,225	68	773	276	0	26,791
	1,781	1,401	590	13	114	9	0	7,981
	1,490	1,278	1,192	70	111	284	0	12,603
	223	575	1,179	199	15	0	0	2,501
	558	404	376	70	31	13	0	3,185
	5,489	4,199	4,647	1,154	164	511	0	31,507
	1,244	2,943	4,913	561	43	169	0	11,251
	2,430	2,607	929	236	284	3,085	0	13,655
	362	62	0	0	0	0	0	1,915
	31,023	22,589	17,024	2,592	14,813	9,290	79	344,293

Table 4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2015

Age	Rural		Urban			Total			
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	67	59	127	98	270	368	165	329	495
20-24	408	954	1,362	955	1,692	2,647	1,363	2,646	4,009
25-29	282	306	589	1,086	1,189	2,275	1,368	1,495	2,863
30-34	197	155	351	245	305	551	442	460	902
35-39	0	0	0	28	115	144	28	115	144
40-44	0	0	0	28	49	77	28	49	77
45-49	0	0	0	46	47	92	46	47	92
50-54	0	0	0	0	18	18	0	18	18
55-59	0	0	0	28	18	47	28	18	47
60-64	0	0	0	0	13	13	0	13	13
Total	954	1,474	2,428	2,516	3,716	6,232	3,470	5,190	8,660

Source: Labour Force Survey Report 2015, MoLHR.

The Ministry of Agriculture and Forests (MoAF), over the past four decades, was concerned about “how to grow” by establishing various agriculture infrastructures to produce and distribute the inputs. Currently the MoAF established four main Renewable Natural Resources (RNR) research centers.

The MoAF with the accumulated experiences having accomplished one five year plan to the other, maintains the three basic objectives that are to i) conserve the environment, ii) enhance the rural income and iii) attain self-reliance in cereals and essential oil crops. In 2014, Agriculture contributed 16.77percent to the total economy i.e. as measured by the Gross Domestic Product. It was also the single largest sector that provides livelihood over 56.7 percent of the population as per Labour Force Survey 2014.

Agricultural practices have changed tremendously over the years. Until a decade ago, agriculture was practiced on a subsistence basis. Whatever was produced on the farm was consumed having little or no marketable surplus. The farm production is supplemented by keeping different kinds of domestic animals such as cattle for draught and milking purpose, chicken for eggs and pigs for meat etc. At higher altitudes, herds of yaks and sheep are also kept for draught and milking.

Owing to the improved communication facilities in the country, there is an increasing tendency to go for cash crops like apples in the temperate north; oranges, areca nut and cardamom in the sub-tropical south. Other cash crops that are exported include ginger, chilies and vegetables.

Strategies to increase livestock and cereal production include the propagation and practice of double cropping of the paddy production and distribution of high yield varieties. In the livestock sector the artificial insemination covers not only for the Jersey breeds that are high yielding but also for the production of Jatsa and Jatsam that are local high yielding varieties. As a result, increasing number of farms is mechanized with sizable investment on the machinery and other inputs that are subsidized by the government.

The issue is not only to formulate well-balanced agricultural policies and the response shown by the farmers to the designed policies and also to monitor the progress. To do this, a good statistical database, giving the trends or time series is required.

Back in 1988/89, the National Agronomic Survey was carried out in collaboration with the then Department of Agriculture. Though the MoAF conducted nation-wide sample surveys called RNR Census in 2009, but the major source of data presented in this chapter are from the Bhutan RNR Statistics 2015 and administrative records maintained by different departments under the MoAF.

Table 5.1: Number of Agriculture Research and Extension Facilities, Bhutan, (2011-2015)
(Numbers)

Infrastructure	2011	2012	2013	2014	2015
RNR (Common services)					
RNR Extension Centers	139	139	139	139	139
RNR Research Centers	4	4	4	4	4
RNR Research sub-stations	6	6	6	6	6
Soil and Plant Analytical Laboratory	1	1	1	1	1
Agriculture					
Agriculture Extension Centers	40	40	40	40	40
Agriculture Seed Production Farms	11	11	11	11	11
Farm Mechanization Centers	3	3	3	3	3
Farm Mechanization Training Centers	1	1	1	1	1
National Mushroom Center	1	1	1	1	1
National Post Harvest Center	1	1	1	1	1
National Plant Protection Center	1	1	1	1	1
Livestock					
Dzongkhag Veterinary Hospitals	20	20	20	20	20
City Veterinary Hospital	1
National Animal Hospital	1
Regional Livestock Development Centre	1
National Livestock Commodity Research Centres	7
Livestock Extension Centers	42	42	42	42	17
Satellite Veterinary Laboratories	3	3	4	4	4
Government Livestock Farms	11	11	11	11	13
Fodder Seed Production Center	1	1	1	1	1
Vaccine Production Centre (NCAH)	1	1	1	1	1
National Artificial Insemination Center	1	1	1
National Cold Water Fishery Center	1	1	1
National Warm Water Fish Culture Center	1	1	1
National Center for Animal Health	1	1	1	1	1
National Centre for Animal Nutrition	1
Liquid Nitrogen and Semen Processing Centre (NDRC)	1
Livestock Product Value Addition Centre, Serbithang	1
Forestry					
Territorial Division HQs	12	12	12	12	12
National Parks	5	5	5	5	5
Range Offices	55	55	55	55	55
Beat Offices	80	80	80	80	80
Nature Conservation Study Center	1	1	1	1	1
Wildlife Sanctuaries	3	3	3	3	3
Nature Study Center	1	1	1	1	1
Percent of Forest cover	70.46	70.46	70.46	70.46	70.46
Percent of Protected Area	51.4	51.4	51.4	51.4	51.4

Source: FIMS, DoA, DoFPS, MoAF, Thimphu.

Table 5.2: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2010

Dzongkhag	Altitude Zones (metres)											Total
	Area	< 600	1200-1800	1800-2400	2400-3000	3000-3600	3600-4200	4200-4800	4800-5400	> 5400		
Bumthang	0.00	0.00	0.00	0.31	7.23	25.05	26.58	19.52	19.29	2.03	100	
Chhukha	4.80	16.69	21.22	20.19	19.70	13.16	4.08	0.16	0.00	0.00	100	
Dagana	12.37	18.86	18.98	18.97	17.82	8.17	3.86	0.98	0.00	0.00	100	
Gasa	0.00	0.00	0.03	1.01	3.06	5.90	13.41	28.64	37.50	10.44	100	
Haa	0.00	1.72	6.19	10.31	16.74	21.50	23.90	16.48	3.11	0.03	100	
Lhuentse	0.00	0.57	5.57	13.81	19.23	17.85	15.35	16.16	10.54	0.93	100	
Monggar	1.65	15.29	26.44	25.13	16.88	12.26	2.35	0.00	0.00	0.00	100	
Paro	0.00	0.00	0.00	4.15	23.30	25.88	18.73	21.96	5.88	0.09	100	
Pema Gatshel	11.20	39.34	35.61	12.82	1.03	0.00	0.00	0.00	0.00	0.00	100	
Punakha	0.00	0.00	13.17	27.52	25.04	16.08	11.59	6.41	0.19	0.00	100	
Samdrup Jongkhar	18.23	24.13	25.38	18.60	9.52	3.57	0.56	0.02	0.00	0.00	100	
Samtse	14.98	28.68	24.26	17.51	10.89	2.78	0.81	0.08	0.00	0.00	100	
Sarpang	21.67	26.38	24.18	20.55	5.49	1.29	0.43	0.01	0.00	0.00	100	
Thimphu	0.00	0.00	0.00	1.60	15.07	22.92	19.78	25.04	13.86	1.74	100	
Trashigang	0.01	4.25	13.90	21.98	21.05	18.35	15.83	4.63	0.00	0.00	100	
Trashiyangtse	0.00	1.75	5.86	15.06	22.90	19.57	15.64	14.35	4.60	0.27	100	
Trongsa	0.00	1.74	8.72	17.66	28.24	23.83	12.50	7.14	0.16	0.00	100	
Tsirang	4.45	28.18	33.75	20.38	8.85	3.53	0.86	0.00	0.00	0.00	100	
Wangdue Phodrang	0.03	2.55	7.92	13.30	17.22	20.18	13.15	11.61	12.89	1.15	100	
Zhemgang	8.33	27.53	28.78	17.79	9.41	5.40	2.04	0.71	0.00	0.00	100	
Bhutan	4.08	9.70	12.94	13.92	14.78	14.29	11.23	10.16	7.64	1.27	100	

Source: Land Cover Mapping Project 2010, NSSC/PPD MoAF, Thimphu.

Table S.3: Area Proportion by Altitude Zones as Percentage of Total Country Area, Bhutan, 2010

Dzongkhag	Area	Altitude Zones (metres)														Total
		< 600	1200-1800	1800-2400	2400-3000	3000-3600	3600-4200	4200-4800	4800-5400	> 5400						
Bumthang	0.00	0.00	0.02	0.51	1.76	1.86	1.37	1.35	0.14	7.01						
Chhukha	0.23	0.82	0.99	0.96	0.64	0.20	0.01	0.00	0.00	4.89						
Dagana	0.55	0.84	0.85	0.80	0.37	0.17	0.04	0.00	0.00	4.48						
Gasa	0.00	0.00	0.08	0.25	0.48	1.08	2.31	3.03	0.84	8.07						
Haa	0.00	0.08	0.50	0.81	1.04	1.16	0.80	0.15	0.00	4.86						
Lhuentse	0.00	0.04	1.01	1.41	1.31	1.13	1.18	0.77	0.07	7.33						
Monggar	0.08	0.77	1.26	0.85	0.62	0.12	0.00	0.00	0.00	5.02						
Paro	0.00	0.00	0.14	0.77	0.85	0.61	0.72	0.19	0.00	3.28						
Pema Gatsel	0.29	1.03	0.34	0.03	0.00	0.00	0.00	0.00	0.00	2.63						
Punakha	0.00	0.00	0.80	0.73	0.47	0.34	0.19	0.01	0.00	2.90						
Samdrup Jongkhar	0.88	1.17	0.90	0.46	0.17	0.03	0.00	0.00	0.00	4.85						
Samtse	0.51	0.97	0.59	0.37	0.09	0.03	0.00	0.00	0.00	3.38						
Sarpang	0.93	1.13	0.88	0.24	0.06	0.02	0.00	0.00	0.00	4.29						
Thimphu	0.00	0.00	0.07	0.69	1.05	0.90	1.14	0.63	0.08	4.57						
Trashigang	0.00	0.24	1.26	1.21	1.05	0.91	0.27	0.00	0.00	5.73						
Trashiyangtse	0.00	0.07	0.57	0.87	0.74	0.59	0.54	0.17	0.01	3.80						
Trongsa	0.00	0.08	0.84	1.34	1.14	0.60	0.34	0.01	0.00	4.76						
Tsirang	0.07	0.47	0.34	0.15	0.06	0.01	0.00	0.00	0.00	1.65						
Wangdue Phodrang	0.00	0.26	1.36	1.76	2.07	1.35	1.19	1.32	0.12	10.25						
Zhemgang	0.52	1.72	1.11	0.59	0.34	0.13	0.04	0.00	0.00	6.25						
Bhutan	4.08	9.70	13.92	14.78	14.29	11.23	10.16	7.64	1.27	100						

Source: Land Cover Mapping Project 2010, NSSC/PPD MoAF, Thimphu.

Table 5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2010/11-2013/14)

Dzongkhag	2010/2011	2011/2012	2012/2013	2013/2014
Bumthang	303	420	512	442
Chhukha	161	415	157	210
Dagana	210	62	7	653
Gasa
Haa	421	661	785	731
Lhuentse	0	9	111	121
Monggar	374	319	1,405	1,262
Paro	4,541	6,186	6,806	6,945
Pema Gatshel	41	82	4	50
Punakha	69	89	243	171
Samdrup Jongkhar	20	0	0	0
Samtse	288	108	20	109
Sarpang	180	124	165	270
Thimphu	9,575	8,925	7,439	6,907
Trashigang	467	268	623	1,054
Trashhi Yangtse	2	18	8	473
Trongsa	70	68	45	166
Tsirang	78	104	96	188
Wangdue Phodrang	2,928	3,259	4,657	4,824
Zhemgang	2	122	16	0
Bhutan	19,730	21,239	23,099	24,576

Source: Bhutan RNR Statistics 2015, MoAF

Table 5.5: Agriculture Land Holdings & Land Types by Dzongkhag, Bhutan, 2010

(Hectares)

Dzongkhag	Wet land	Dry land	Orchad	Total area
Bumthang	24.7	2,883.8	11.5	2,920.0
Chhukha	1,799.2	5,119.2	2,322.7	9,241.1
Dagana	1,492.8	4,588.4	1,455.5	7,536.7
Gasa	143.6	386.3	0.0	529.9
Haa	88.5	2,067.8	624.6	2,780.9
Lhuentse	1,575.6	4,328.7	0.9	5,905.2
Monggar	431.7	5,304.4	3.2	5,739.3
Paro	1,753.0	3,561.6	1,025.6	6,340.2
Pema Gatshel	302.3	4,333.4	620.4	5,256.1
Punakha	5,074.3	262.0	16.7	5,353.0
Samdrup Jongkhar	1,147.7	6,732.4	249.2	8,129.3
Samtse	5,682.4	8,150.5	3,533.4	17,366.3
Sarpang	2,087.6	3,472.7	1,092.5	6,652.8
Thimphu	458.3	913.6	902.1	2,274.0
Trashigang	1,448.5	4,974.4	0.0	6,422.9
Trashigang	949.3	2,110.6	0.0	3,059.9
Trongsa	1,082.3	1,204.9	0.0	2,287.2
Tsirang	1,527.1	2,867.4	314.4	4,708.9
Wangdue Phodrang	4,202.3	1,742.0	0.1	5,944.4
Zhemgang	639.6	3,250.7	211.2	4,101.5
Bhutan	31,910.8	68,254.8	12,384.0	112,549.6

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 5.6: Annual Average Price of Agricultural Commodities by Type, Bhutan, (2011-2014)

Commodities	Nu./ Kg			
	2011	2012	2013	2014
Wheat	19	20	21	22
Rice (Local)	52	55	58	60
Potatoes	20	20	24	25
Tomatoes	45	42	50	50
Onions	35	48	44	50
Garlic	77	81	82	81
Carrots	37	40	47	50
Cauliflower	43	41	39	37
Cabbages	23	24	25	26
Peas (Green)	28	34	40	46
Beans (Green)	41	41	41	41
Asparagus	47	48	49	50
Eggplants	37	34	31	28
Mushrooms	56	60	64	68
Chilies	62	70	78	86
Spinach	31	35
Bananas	55	39
Pineapples	33	41	49	57
Mangoes	46	53	60	67
Oranges	39	45	51	57
Apples	81	87	57	60
Pears	37	35	33	31
Peaches	47	50
Plums	38	30
Ginger	91	92	93	94
Beef	118	120	122	124
Pork	130	137	144	151
Mutton	172	180	188	196
Chicken	127	136	145	154
Eggs (Per Doz)	117	145	150	156
Price Index	59	63

Source: Bhutan RNR Statistics 2015, MoAF

Table 5.7: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2013

Dzongkhag	Wheat/ Barley			Paddy		
	Area	Production	Yield	Area	Production	
	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	
Bumthang	778	703	903	170	259	
Chhukha	326	270	828	1,865	2,461	
Dagana	164	92	561	3,656	5,542	
Gasa	227	223	981	121	147	
Haa	606	432	713	143	178	
Lhuentse	94	64	682	2,329	3,944	
Monggar	1,179	718	609	1,029	1,431	
Paro	703	594	845	4,247	9,891	
Pema Gatshel	57	29	510	45	43	
Punakha	566	422	746	5,908	11,028	
Samdrup Jongkhar	436	280	642	2,310	2,663	
Samtse	156	86	552	7,175	8,969	
Sarpang	70	43	614	4,274	5,518	
Thimphu	138	121	874	562	1,065	
Trashigang	338	285	843	1,637	2,356	
Trashigang	44	30	674	1,680	2,326	
Trongsa	954	797	836	1,749	2,486	
Tsirang	157	102	650	3,704	4,984	
Wangdue Phodrang	1,149	882	1,045	4,455	8,362	
Zhemgang	164	120	732	1,302	1,576	
Bhutan	8,306	6,293	758	48,361	75,229	

Source: Bhutan RNR Statistics 2015, MoAF.

		Maize			Buckwheat/ Millet		
	Yield	Area	Production	Yield	Area	Production	Yield
	(Kg/Acre)	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	(Kg/Acre)
	1,519	0	0	0	631	427	677
	1,320	3,192	2,713	850	1,021	554	543
	1,516	6,423	7,655	1,192	1,228	622	507
	1,214	0	0	0	4	3	750
	1,242	330	329	997	612	366	598
	1,693	2,828	5,032	1,779	64	45	703
	1,391	8,494	14,767	1,739	271	118	435
	2,329	56	53	946	185	137	741
	956	4,643	6,113	1,317	685	367	536
	1,867	230	230	1,000	144	111	771
	1,153	5,464	6,818	1,248	1,282	768	599
	1,250	5,623	4,046	720	1,093	589	539
	1,291	4,191	5,687	1,357	1,220	644	528
	1,895	0	0	0	0	0	0
	1,439	5,416	7,071	1,306	473	229	484
	1,384	1,781	3,046	1,710	316	294	930
	1,421	1,286	1,730	1,345	815	428	525
	1,346	5,359	5,150	961	800	468	585
	1,877	340	330	971	379	194	512
	1,210	3,669	4,937	1,346	421	227	539
	1,556	59,325	75,707	1,276	11,644	6,591	566

Table 5.8: Number of Livestock by Type and Dzongkhag, Bhutan, (2013-2015)

Dzongkhag	Local Cattle			Improved Cattle			Yak			Horses	
	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014
Bumthang	5,817	4,826	5,011	5,207	5,264	5,975	2,974	3,661	3,621	1,213	1,236
Chhukha	17,969	18,982	16,893	3,694	4,033	4,405	0	0	0	592	608
Dagana	13,121	13,820	13,574	3,501	3,528	3,582	0	0	0	283	1,348
Gasa	393	440	482	412	441	495	5,787	5,763	6,314	1,515	1,862
Haa	6,999	6,207	6,464	2,704	2,783	3,266	5,857	4,683	4,458	1,937	1,144
Lhuentse	11,860	9,072	10,477	2,286	2,216	3,159	234	387	316	1,725	1,292
Monggar	18,392	18,806	18,213	6,949	8,070	8,192	0	0	0	1,706	1,702
Paro	8,811	8,221	6,281	4,248	5,598	5,993	2,632	2,690	3,360	1,293	1,039
Pema Gatshel	3,521	3,156	2,786	4,308	4,874	5,053	0	0	0	1,048	519
Punakha	8,168	9,011	9,028	2,876	2,809	3,129	0	0	0	486	470
Samdrup Jongkhar	13,113	12,966	10,721	5,191	4,970	6,148	28	18	5	1,307	1,115
Samtse	29,774	25,958	26,418	3,662	3,841	4,892	0	0	0	468	284
Sarpang	13,848	16,589	16,548	5,977	7,727	7,529	0	0	0	573	524
Thimphu	1,616	1,339	1,544	2,297	1,843	1,984	10,984	9,757	10,005	1,303	1,249
Trashigang	26,608	20,525	19,508	6,689	7,267	7,842	7,153	14,096	6,202	3,687	3,003
Trashi Yangtse	7,876	8,732	7,686	2,603	2,994	3,279	541	538	555	1,300	1,249
Trongsa	8,221	8,684	7,626	2,874	3,239	3,693	80	126	85	428	458
Tsirang	5,812	6,513	5,706	5,102	6,234	6,778	0	0	0	108	118
Wangdue Phodrang	22,037	18,731	17,126	3,518	3,619	5,039	3,273	3,274	3,301	872	808
Zhemgang	9,440	8,686	9,014	1,953	1,783	1,947	0	0	0	1,496	1,193
Bhutan	233,396	221,264	211,106	76,051	83,133	92,380	39,543	44,993	38,222	23,340	21,221

Source: Department of Livestock, MoAF.

	Sheeps			Goats			Pigs			Poultry			
	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015
	1,278	268	290	694	36	4	5	0	36	0	995	2,059	5,102
	569	556	684	620	6,279	6,395	5,779	1,774	1,634	1,435	35,650	33,675	54,940
	379	374	436	267	5,821	16,832	7,182	1,775	1,732	1,781	19,897	17,960	28,133
	2,268	2	0	3	0	4	34	na	0		786	626	1,281
	1,081	1	0	1	42	41	10	311	122	75	6,065	6,394	8,822
	1,463	101	94	103	76	56	59	216	86	138	13,666	12,075	14,170
	1,465	23	2	8	88	67	65	1,021	731	1,065	28,248	31,048	33,456
	1,408	12	2	10	118	125	662	510	339	568	24,669	16,972	26,657
	459	1	0	6	21	41	78	625	428	540	12,449	12,821	14,955
	461	15	18	19	115	223	233	378	354	254	6,710	8,055	10,722
	1,155	23	36	57	1,579	1,259	1,442	523	404	460	15,645	21,430	20,652
	300	3,583	3,596	5,246	14,492	11,685	13,237	2,133	1,919	1,977	59,091	48,229	58,229
	497	562	637	607	3,905	4,366	4,327	1,585	2,168	2,879	151,691	170,015	165,041
	1,410	9	7	2	41	23	47	412	525	370	28,648	28,847	36,689
	2,712	2,078	2,454	2,756	189	149	257	660	542	529	24,211	22,727	21,658
	1,184	17	2	2	108	90	192	448	368	259	8,652	7,616	7,065
	388	328	369	107	8	41	91	33	30	75	5,463	6,701	11,349
	115	161	201	224	5,839	6,922	7,771	970	1,146	1,805	88,999	74,396	97,345
	596	1,797	1,552	676	430	444	450	1,106	916	726	7,511	19,366	13,253
	1,065	6	398	2	77	97	62	892	706	791	12,139	9,703	8,982
	20,253	9,917	10,778	11,410	39,264	48,864	41,983	15,372	14,186	15,727	551,185	550,715	638,501

Table 5.9: Dairy & Livestock Production by Type and Dzongkhag, Bhutan, (2013-2015)

Dzongkhag	Milk			Butter			Cheese			Beef			2013
	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	
Bumthang	1,542	1,669	1,643	58	58	71	460	312	338	21	37	16	0
Chhukha	1,580	2,002	2,012	55	64	59	98	115	102	15	10	17	34
Dagana	1,542	1,579	1,855	56	62	74	80	85	97	13	55	67	33
Gasa	385	391	424	18	20	21	25	32	26	0	2	0	0
Haa	1,363	1,895	1,904	41	63	55	47	96	82	7	34	2	10
Lhuentse	999	899	1,588	51	44	76	89	77	134	21	34	39	6
Monggar	2,632	2,677	3,795	130	171	177	228	295	317	77	87	86	20
Paro	2,072	1,829	1,931	65	48	87	110	86	313	26	19	7	19
Pema Gatshel	964	1,089	1,590	41	47	64	74	84	117	5	6	11	17
Punakha	1,157	1,050	1,058	56	48	48	97	82	88	17	17	18	9
Samdrup Jongkhar	1,732	1,931	1,938	44	66	80	79	114	133	19	31	44	4
Samtse	2,000	2,401	3,557	53	73	114	87	125	297	1	74	150	26
Sarpang	1,905	2,480	2,265	55	86	108	97	143	198	10	4	6	205
Thimphu	1,172	1,318	1,427	46	48	42	34	27	50	5	73	4	5
Trashigang	3,856	4,613	4,739	207	209	198	243	384	394	32	24	42	13
Trashi Yangtse	1,112	1,408	1,775	68	67	87	114	120	153	25	14	23	18
Trongsa	1,114	1,247	1,387	77	53	62	129	212	278	75	82	52	2
Tsirang	1,282	1,486	1,610	45	52	54	92	88	89	41	114	11	30
Wangdue Phodrang	1,661	1,977	2,316	117	94	113	129	164	203	5	25	30	12
Zhemgang	851	865	1,030	40	37	40	70	60	61	7	11	12	23
Bhutan	30,920	34,807	39,844	1,322	1,409	1,629	2,382	2,702	3,471	421	639	637	485

Source: Department of Livestock, MoAF.

	Pork		Mutton			Chicken			Fish			Eggs(000'nos)		
	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015
	0	0	0	0	0	0	0	0	0	0	0	62	354	468
	43	43	8	8	10	388	268	281	0	0	0	3,625	3,947	4,390
	40	48	15	28	23	33	59	94	1	21	38	1,597	990	1,389
	0	0	0	0	0	0	0	0	0	0	0	61	89	93
	3	3	0	0	0	0	1	0	1	0	0	416	583	659
	2	11	0	0	0	0	0	0	0	0	0	1,088	955	1,646
	31	42	0	0	0	0	0	0	0	0	1	2,777	4,272	4,732
	10	23	0	0	0	1	0	0	0	0	0	3,919	2,429	3,941
	14	19	0	0	0	0	0	1	0	1	1	967	1,503	1,956
	11	10	0	0	0	0	1	4	0	0	1	712	1,239	1,359
	8	16	3	2	4	2	16	18	33	37	34	2,948	2,105	2,332
	28	41	18	74	79	85	164	192	5	12	12	1,396	2,023	2,676
	91	94	31	29	28	122	215	193	7	40	49	24,300	14,301	15,884
	2	0	0	0	0	19	1	25	0	0	0	2,772	5,310	7,204
	10	11	1	0	0	0	0	0	0	0	0	3,355	3,061	2,767
	14	4	0	0	0	0	1	0	0	0	0	1,459	1,020	1,226
	1	1	0	0	2	0	4	8	0	0	0	649	955	927
	38	38	11	19	18	135	202	203	5	5	3	12,312	10,338	11,792
	29	39	3	0	1	2	8	40	0	0	0	362	1,902	1,899
	14	18	0	0	0	2	2	2	1	2	9	1,597	1,330	1,353
	388	462	90	161	166	789	944	1,063	55	119	149	66,374	58,706	68,695

Table 5.10: Fruit Production and Yield, Bhutan, (2009-2013)

Fruits	Production (MT)					(Yield (Kgs/Bearing Tree))				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Apple	6,931	17,366	20,752	7666	8032	20	30	37	31	...
Mandarin	44,295	52,624	60,993	49490	33470	28	34	35	45	...
Banana	2,155	2,208	2,439	1547	...	11	14	14		...
Mango	321	398	451	743	...	24	30	28	58	...
Guava	942	864	950	732	...	24	23	24	30	...
Peach	1,233	779	1,649	1614	...	37	33	39	51	...
Pear	1,109	758	1,354	2166	...	63	47	49	109	...
Plum	549	357	565	695	...	45	40	39	64	...
Walnut	244	213	474	414	...	16	22	24	31	...
Arecanut	6,373	7,280	9,781	7788	6250	11	10	12	12	...

Source: Bhutan RNR Statistics 2015, MoAF.

Table 5.11: Vegetables, Oilseeds, Spices and Pulses Production, Bhutan, (2009-2013)

(Metric Tones)

Details	2009	2010	2011	2012	2013
Potato	45,476	44,014	52,116	43,000	50,390
Chili	9,144	6,696	8,121	7,726	8,320
Tomato	753	221	559	337	...
Cabbage	1,782	1,299	2,130	3,413	...
Cauliflower	355	328	2,130	829	...
Broccoli	175	122	304	363	...
Asparagus	328	74	280	149	...
Carrot	329	205	458	585	...
Pumpkin	5,319	3,670	5,368	4,796	...
Radish	5,617	3,882	4,865	5,245	...
Turnip	6,238	2,638	7,823	7,994	...
Beans	3,048	2,400	2,690	2,479	...
Rajma Beans	473	471	873
Peas	695	355	770	779	...
Other Vegetables	8,282	7,168	5,558
Cardamom	442	1,163	650	643	1,160
Garlic	629	485	584	644	...
Ginger	3,766	4,074	4,533	5,014	3,756
Onion	388	243	285	264	...
Mustard	1,951	1,332	2,344	790	955
Soybean	372	401	826	294	...

Source: Bhutan RNR Statistics 2015, MoAF.

Table 5.12: Volume and Value of Exports by Major Commodities, Bhutan, (2011-2014)

Commodity	Volume (MT)				Value(Nu. in Million)			
	2011	2012	2013	2014	2011	2012	2013	2014
Rice	116	60	118	7	8.96	6.23	13.09	0.91
Wheat / Barley ¹	1,857	5,745	6,823	5,728	118.18	229.56	124.80	111.97
Other Cereals	47	1,039	18	1	0.66	26.01	0.24	0.18
Apples	5,764	3,410	4,314	5,728	102.92	49.23	98.74	139.07
Oranges	18,928	24,432	24,975	21,148	327.78	452.64	519.15	542.56
Other Fruits	115	9	0	4	4.22	5.46	0.00	0.12
Betel Nuts	655	1,145	932	1,830	21.66	32.41	25.64	70.49
Potatoes	24,454	20,348	21,871	26,849	250.26	326.51	360.13	688.79
Cardamom	427	632	826	408	384.28	434.82	658.56	421.42
Vegetables, spices and oilseeds	2,158	3,926	3,337	3,414	30.00	56.43	77.09	116.13
MAPs	0	0	20	24		0.12	0.83	2.70
Mushrooms	1	2	2	3	3.10	6.28	7.02	11.38
Ginger	...	1,439	1,531	1,230		19.43	40.58	55.04
Cordyceps	0	0	1	1	86.50	101.59	258.81	375.34
Incense	0	0	0	3	0.00	0.00	0.00	2.38
Dairy Products	...	139	0	53	...	5.70	0.00	2.87
Live animals ('000)	...	0	0	23	...	0.13	0.00	1.08
Meats	...	19	0	0	...	0.53	0.00	0.00

Note : ¹ After 2012, Wheat/Barley includes only wheat flour

Source: Bhutan RNR Statistics 2015, MoAF

Table 5.13: Volume and Value of Imports by Major Commodities, Bhutan, (2011-2014)

Commodity	Volume (MT)				Value(Nu. in Million)			
	2011	2012	2013	2014	2011	2012	2013	2014
Rice	54056	68235	69885	79306	854.00	1202.11	1540.37	1787.60
Wheat/Barley	16047	13910	22188	23264	188.00	135.47	378.87	416.19
Other Cereals	4855	566	502	437	72.00	20.67	7.82	6.38
Fruits and Nuts		3440	1905	2403		99.27	42.07	75.38
Potatoes	5208	5208	5283	5273	40.00	60.89	56.79	80.65
Vegetables	6739	8027	8259	12646	80.00	126.63	238.59	410.97
Dairy Products		4358	6206	7807		603.27	1003.46	1246.33
Oils & Fats	9772	12444	13761	18944	561.00	733.71	966.68	996.17
Sugar	8262	10154	10022	9732	210.00	359.60	322.35	330.25
Salt	7234	6184	30.98	33.85
Pork	1385	1890	2314	2165	155.00	225.46	312.69	312.69
Beef	2658	3906	4429	3740	252.00	427.25	547.83	501.40
Chicken	567	1	1006	1302	54.00	0.08	116.39	165.83
Fish	2079	2539	2872	3101	160.00	126.39	284.07	394.39
Mutton	22	61	83	33	5.00	11.22	15.59	8.35

Source: Bhutan RNR Statistics 2015, MoAF

Table 5.14: Imports and Sales of Food Items by Food Corporation of Bhutan, (2011-2015)
(Metric tones)

Commodity	2011	2012	2013	2014	2015
Imports					
Rice	5,708.7	7,565.0	7,435.2	7,216.78	9,027.22
Wheat	65.0	159.9	55.0	...	0.00
Sugar	4,155.9	4,033.8	2,634.0	696.31	1,257.71
Salt	532.6	462.2	732.8	703.19	795.75
Edible Oil	913.3	1,841.9	1,573.2	1,448.64	1,411.52
Pulses	4,445.7	520.5	511.1	256.52	413.46
Maida	220.2	276.3	373.3	472.50	652.44
Atta	143.4	372.3	299.3	217.56	266.88
Sales					
Rice	10,117.7	6,973.8	7,798.2	7,549.00	8,594.34
Wheat	159.4	153.2	69.4	3.00	0.00
Sugar	6,089.0	4,049.9	2,002.4	969.58	1,148.88
Salt	808.8	643.4	722.1	689.12	785.39
Edible Oil	1,759.7	245.1	1,458.0	1,554.34	1,518.48
Pulses	848.2	511.6	433.0	350.17	444.70
Maida	339.9	268.9	383.5	472.79	609.35
Atta	269.9	352.6	281.1	227.68	242.26

Source: Food Corporation of Bhutan, Phuentsholing.

Table 5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan, (2011-2015)

(Metric tones)

Commodity	2011	2012	2013	2014	2015
Potatoes	23,117.1	22,906.9	26,028.2	26,345.58	22,597.24
Vegetables	1,736.2	2,097.0	2,930.9	2,923.39	3,841.41
Apples	43.5	58.7	51.7	24.87	28.84
Oranges	1,433.6	1,141.6	3,176.1	2,112.97	1,853.71
Cardamom	0.0	0.0	0.1	0.00	0.00
Ginger	697.0	692.6	412.5	297.25	347.53
Garlic	3.2	0.0	0.1	0.15	0.07
Arecanut	456.3	356.3	213.3	232.33	437.94
Supari(dried doma)	0.0	0.0	0.0	0.00	0.00
Dry chili	0.0	0.0	0.0	0.00	0.00
Kidney bean(rajma)	41.7	11.4	9.6	10.22	8.65
Soya bean	13.1	1.6	14.4	7.20	8.27
Pulses	0.2	12.9	0.0	17.42	0.00
Mustard	0.0	0.0	0.0	0.00	0.00
Pipla (wild)	0.0	0.0	0.0	0.00	0.00
Lechi	0.0	0.0	0.0	0.00	0.00
Lemon	0.3	0.2	1.1	0.65	0.36
Apricot	0.0	0.0	0.0	0.02	0.00
Peach	0.4	0.5	0.2	1.40	2.08
Plum	0.4	1.0	5.1	1.80	1.20
Pear	0.0	0.0	0.1	0.97	0.18
Dry bean	0.0	0.0	0.0	0.00	0.00

Source: Food Corporation of Bhutan, Phuentsholing.

The conservation of environment is one of the four pillars of Bhutan's development philosophy of Gross National Happiness (GNH). Accordingly the Royal Government of Bhutan (RGoB) has been putting constant effort in protecting the environment and the priority has been in the sustainable use of natural resources in all its policies, plans and programs.

This chapter presents statistics which are related to environment. The statistics presented here are not so comprehensive particularly from the point that some of the statistics are already presented under other chapters. However, the statistics collected and presented in this chapter are organized based on the broad Framework for Development of Environmental Statistics (FDES) provided by the United Nations Statistics Division. The six components of FDES, namely, environmental conditions & quality, environmental resources & their use, emissions, residuals & waste, extreme events & disasters, human habitat & environmental health, environmental protection, management & engagement have been used to gather statistics from different sources.

The chapter on Environment Statistics gives a general statistics on atmosphere, climate & weather, hydrographic characteristics, geological & geographic information, land cover, biodiversity and forest. It also gives statistics on extraction & trade of mineral, production & use of energy, land use, timber resources & their use, crops, livestock, water resources, emissions of greenhouse gases, occurrence & impact of natural extreme events & disasters, urban & rural population, water & sanitation, other urban habitat concerns and government environmental protection & resource management expenditures.

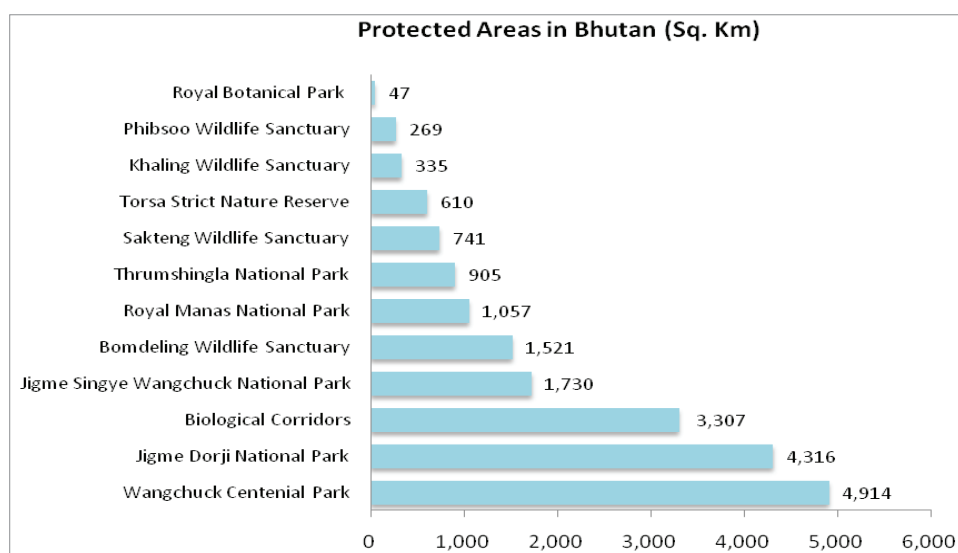


Table 6.1: Area of Land-Use and Vegetation by Types, Bhutan, 2010

Land Category/Types of Vegetation and Landuse	Land Type	Total Area (Sq. km)	Area (Percent)
Forest Areas	Forest (Total)	27,052.91	70.46
	Blue Pine Forest	783.47	2.04
	Broadleaf Forest	16,850.24	62.29
	Broadleaf with Conifer Forest	348.38	0.91
	Chir Pine Forest	1,137.22	2.96
	Fir Forest	1,804.40	4.70
	Mixed Conifer Forest	6,129.19	15.96
	Agriculture Areas	Agricultural (Total)	1,125.50
Wetland		319.11	0.83
Dryland		682.55	1.78
Citrus Orchard		54.88	0.14
Apple Orchard		20.81	0.05
Arecanut Plantation		11.99	0.03
Cardamom Plantation		36.00	0.09
Other Horticulture		0.16	0.00
Bare Areas	Bare Areas (Total)	1,229.53	3.20
	Bare Soils	0.27	0.00
	Rock Outcrops	996.58	2.60
	Scree	232.68	0.61
Degraded Areas	Degraded Areas (Total)	206.45	0.54
	Gullies	0.07	0.00
	Landslides	86.46	0.23
	Moraine Deposits	119.93	0.31
Marshy Areas	Marshy Areas	3.20	0.01
Meadows (Pasture)	Meadows	1,575.46	4.10
Shrubs	Shrubs	4,005.25	10.43
Snow Cover	Snow Cover	2,854.35	7.43
Water Bodies	Water Bodies (Total)	276.55	0.72
	Lakes	45.99	0.12
	Reservoirs	2.91	0.01
	Rivers	227.65	0.59
Built up Areas (Settlements)	Built up Areas	61.56	0.16
Non-Built up Areas (waste dump sites, mines, stone quarries and other extraction sites)	Non-Built up Areas	3.30	0.01
Total		38,394	100

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.2: Area Proportion as Percentage of Total Dzongkhag Area by Type of Land Cover, Bhutan, 2010

Dzongkhag	Forest Areas	Agriculture Areas	Meadows	Shrubs	Water Bodies	Snow Cover	Others	Total
Bumthang	52.06	1.09	10.62	12.67	0.65	12.11	10.80	100
Chhukha	85.77	4.92	1.88	4.65	1.01	0.73	1.06	100
Dagana	87.06	4.38	0.43	4.81	1.00	1.46	0.87	100
Gasa	26.25	0.17	8.02	20.15	0.60	25.90	18.91	100
Haa	65.35	1.49	8.34	18.45	0.33	4.72	1.32	100
Lhuentse	61.48	2.10	2.69	11.96	0.43	12.72	8.61	100
Monggar	91.59	2.95	0.32	4.07	0.44	0.00	0.63	100
Paro	60.91	5.07	5.57	22.41	0.40	4.03	1.62	100
Pema Gatshel	87.65	5.14	0.06	4.52	1.22	0.00	1.41	100
Punakha	75.87	4.82	1.53	9.96	0.52	7.16	0.14	100
Samdrup Jongkhar	86.95	4.33	0.22	5.90	1.38	0.00	1.23	100
Samtse	78.03	13.31	0.76	3.94	2.67	0.22	1.07	100
Sarpang	88.00	3.99	0.03	5.02	2.30	0.00	0.65	100
Thimphu	42.86	1.30	10.36	21.39	0.29	15.10	8.70	100
Trashigang	81.65	2.91	3.35	9.92	0.35	1.32	0.51	100
Trashi Yangtse	70.90	2.11	1.43	13.52	0.50	11.36	0.18	100
Trongsa	87.16	1.26	2.87	6.21	0.16	1.78	0.56	100
Tsirang	87.34	7.37	0.18	3.29	0.93	0.00	0.88	100
Wangdue Phodrang	65.29	1.52	7.16	9.39	0.16	15.91	0.57	100
Zhemgang	87.71	1.70	2.25	5.97	0.86	0.17	1.35	100
Bhutan	70.46	2.93	4.10	10.43	0.72	7.43	3.92	100

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.3: Area Proportion as Percentage of Total Country Area by Type of Land Cover, Bhutan, 2010

Dzongkhag	Forest Areas	Agriculture Areas	Meadows	Shrubs	Water Bodies	Snow Cover	Others	Total
Bumthang	3.62	0.08	0.74	0.88	0.05	0.84	0.75	6.95
Chhukha	4.20	0.24	0.09	0.23	0.05	0.04	0.05	4.90
Dagana	3.91	0.20	0.02	0.22	0.04	0.07	0.04	4.49
Gasa	2.10	0.01	0.64	1.61	0.05	2.07	1.51	8.01
Haa	3.17	0.07	0.41	0.90	0.02	0.23	0.06	4.86
Lhuentse	4.50	0.15	0.20	0.88	0.03	0.93	0.63	7.32
Monggar	4.64	0.15	0.02	0.21	0.02	0.00	0.03	5.07
Paro	1.98	0.17	0.18	0.73	0.01	0.13	0.05	3.26
Pema Gatshel	2.33	0.14	0.00	0.12	0.03	0.00	0.04	2.66
Punakha	2.19	0.14	0.04	0.29	0.01	0.21	0.00	2.89
Samdrup Jongkhar	4.25	0.21	0.01	0.29	0.07	0.00	0.06	4.89
Samtse	2.65	0.45	0.03	0.13	0.09	0.01	0.04	3.40
Sarpang	3.82	0.17	0.00	0.22	0.10	0.00	0.03	4.34
Thimphu	1.95	0.06	0.47	0.97	0.01	0.69	0.40	4.55
Trashigang	4.69	0.17	0.19	0.57	0.02	0.08	0.03	5.74
Trashigang Yangtse	2.68	0.08	0.05	0.51	0.02	0.43	0.01	3.77
Trongsa	4.14	0.06	0.14	0.29	0.01	0.08	0.03	4.75
Tsirang	1.45	0.12	0.00	0.05	0.02	0.00	0.01	1.66
Wangdue Phodrang	6.67	0.15	0.73	0.96	0.02	1.62	0.06	10.21
Zhemgang	5.52	0.11	0.14	0.38	0.05	0.01	0.08	6.29
Bhutan	70.46	2.93	4.10	10.43	0.72	7.43	3.92	100

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.4: Forest Area Under Tree Cover by Dzongkhags, Bhutan, 2010

Dzongkhag	Total area (Sq.km)	Area under tree cover (Hectares)							Total	
		Blue Pine Forest	Broadleaf Forest	Broadleaf with Conifer Forest	Chir Pine Forest	Fir Forest	Mixed Conifer Forest	Tree Cover Area	Percent	
Bumthang	2,667.76	25,641.07	15.81	3.58	0.00	42,221.09	70,996.72	141,546	3.687	
Chhukha	1,879.32	3,141.41	138,283.06	965.07	0.00	237.87	18,565.79	163,073	4.247	
Dagana	1,722.57	0.00	134,261.77	0.00	1,437.31	0.00	14,261.94	151,684	3.951	
Gasa	3,075.08	0.00	11,055.45	0.00	0.00	40,663.25	29,005.95	83,800	2.183	
Haa	1,864.75	5,548.56	62,770.23	0.00	0.00	17,436.28	36,096.10	123,716	3.222	
Lhuentse	2,808.53	225.13	84,718.08	10,589.62	11,016.82	36,660.66	29,468.26	175,487	4.571	
Monggar	1,944.95	367.66	118,314.63	611.45	31,959.83	7,125.33	19,748.86	180,073	4.690	
Paro	1,250.71	22,077.19	733.41	130.92	0.00	12,681.74	40,546.97	77,421	2.016	
Pema Gatshel	1,022.14	0.00	84,395.15	284.53	4,939.06	0.00	21.38	90,662	2.361	
Punakha	1,109.81	0.00	57,436.39	233.71	8,105.86	564.85	17,864.74	85,315	2.222	
Samdrup Jongkhar	1,877.93	513.45	159,849.69	1,697.47	679.40	88.38	452.94	165,159	4.302	
Samtse	1,305.18	0.00	99,492.62	781.32	0.00	0.00	1,560.23	103,139	2.686	
Sarpang	1,666.15	0.00	143,233.39	0.00	0.00	89.38	3,288.58	148,278	3.862	
Thimphu	1,748.58	17,085.84	645.58	285.37	0.00	12,927.56	44,004.00	76,697	1.998	
Trashigang	2,204.21	0.00	94,362.51	112.41	19,916.81	0.00	65,586.72	182,183	4.745	
Trashigangtse	1,449.26	393.67	55,668.78	0.00	3,031.27	0.00	43,649.87	104,193	2.714	
Trongsa	1,822.13	408.24	87,679.29	9,293.31	3,284.54	3,646.29	54,487.06	160,621	4.183	
Tsirang	638.29	0.00	48,805.68	0.00	2,685.97	0.00	4,294.55	56,424	1.470	
Wangdue Phodrang	3,920.33	4,621.78	122,736.86	0.00	17,087.78	2,274.00	109,246.75	259,888	6.769	
Zhemgang	2,416.20	0.00	184,498.07	6,483.57	3,521.87	6,591.58	10,816.16	214,327	5.582	
Bhutan	38,393.88	80,024.00	1,688,956.45	31,472.33	107,666.52	183,208.26	613,963.57	2,743,685.01	70.46	

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.5: Monthly Maximum and Minimum Average Temperature by Dzongkhag, Bhutan, 2015

(Degree Celsius)

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bumthang	max	12.9	14.1	17.2	16.7	19.4	22.4	23.0	22.0	22.0	19.8	16.4	12.0	18.2
	min	-5.5	-0.8	3.5	5.7	10.6	13.9	14.0	14.5	13.9	8.3	2.9	-1.5	6.6
	Ave	3.7	6.6	10.3	11.2	15.0	18.1	18.5	18.3	17.9	14.0	9.7	5.2	12.4
Chhukha	max	31.4	32.4	33.5	32.5	28.7	31.7
	min	18.9	22.1	18.7	15.8	...	19.4	
	Ave	26.9	26.1	24.2	...	25.7
Dagana	max	13.5	14.6	17.9	18.2	20.4	21.1	22.1	21.1	21.4	20.1	16.9	12.2	18.3
	min	1.9	3.3	6.6	8.3	11.5	14.0	14.4	14.5	13.7	9.8	6.1	1.8	8.8
	Ave	7.7	8.9	12.3	13.2	15.9	17.5	18.3	17.8	17.5	15.0	11.5	7.0	13.6
Gasa	max	9.3	8.2	11.7	12.3	16.6	18.9	21.9	19.4	18.7	17.2	11.2	7.5	14.4
	min	-2.6	-2.6	-2.0	-2.6	3.1	4.2	9.1	9.5	10.5	4.4	-2.7	-1.7	2.2
	Ave	3.3	2.8	4.8	4.8	9.9	11.5	15.5	14.4	14.6	10.8	4.3	2.9	8.3
Haa Namjayingling	max	10.8	12.1	14.0	13.9	17.6	31.1	20.3	19.6	19.4	16.4	13.9	10.8	16.6
	min	-6.9	-4.4	-1.0	3.9	8.8	10.8	11.1	11.7	10.8	3.3	0.1	-6.2	3.5
	Ave	2.0	3.8	6.5	8.9	13.2	20.9	15.7	15.7	15.1	9.8	7.0	2.3	10.1
Tangmachu, Lhuentse	max	21.8	24.2	28.2	27.0	29.2	29.5	30.5	30.6	31.2	29.0	24.1	20.1	27.1
	min	4.5	8.1	11.7	13.4	18.8	19.7	19.6	19.6	19.1	13.8	10.1	6.4	13.8
	Ave	13.2	16.2	19.9	20.2	24.0	24.6	25.1	25.1	25.1	21.4	17.1	13.3	20.4
Monggar	max	18.5	21.1	25.0	23.6	25.8	26.5	27.7	25.4	24.6	24.2	19.9	15.3	23.2
	min	6.1	7.3	10.5	12.0	15.6	17.2	17.5	18.2	17.6	13.7	10.2	6.4	12.7
	Ave	12.3	14.2	17.8	17.8	20.7	21.8	22.6	21.8	21.1	19.0	15.1	10.8	17.9

cont...

Table 6.5 cont...

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Punakha	max	24.9	25.6	29.2	30.3	31.2	32.5	33.1	32.6	32.4	30.8	26.9	23.8	29.4
	min	2.5	7.6	12.3	16.6	20.4	22.2	22.2	22.3	21.9	16.6	11.7	8.2	15.4
	Ave	13.7	16.6	20.7	23.5	25.8	27.3	27.7	27.4	27.1	23.7	19.3	16.0	22.4
Paro	max	13.8	15.0	18.0	18.6	22.5	23.3	23.4	23.1	22.3	21.0	17.8	13.5	19.4
	min	-4.0	-0.6	2.5	5.9	10.2	13.3	13.6	13.7	12.9	7.1	2.7	-3.3	6.2
	Ave	4.9	7.2	10.3	12.2	16.4	18.3	18.5	18.4	17.6	14.0	10.2	5.1	12.8
Pema Gatshel	max	16.5	17.9	22.7	20.6	23.3	23.2	24.1	24.0	24.3	23.5	20.2	15.8	21.3
	min	5.6	6.9	10.9	12.7	16.2	18.3	18.5	18.7	18.0	13.5	9.9	5.5	12.9
	Ave	11.1	12.4	16.8	16.6	19.7	20.8	21.3	21.3	21.2	18.5	15.0	10.6	17.1
Samdrup Jongkhar	max	19.6	19.1	21.6	23.4	25.6	27.1	28.7	26.9	27.1	26.5	23.1	19.7	24.0
	min	10.5	7.7	11.3	13.6	17.0	19.1	22.6	19.0	18.7	16.6	12.8	9.6	14.9
	Ave	15.0	13.4	16.5	18.5	21.3	23.1	25.7	23.0	22.9	21.6	17.9	14.6	19.5
Sipsu, Samtse	max	25.1	26.3	28.4	28.2	29.7	28.8	30.3	29.4	29.3	30.8	27.1	23.9	28.1
	min	12.4	13.0	16.8	18.1	20.8	22.3	22.4	22.5	21.9	20.3	16.2	12.8	18.3
	Ave	18.8	19.6	22.6	23.1	25.3	25.6	26.3	26.0	25.6	25.5	21.6	18.3	23.2
Bhur, Sarpang	max	23.6	24.4	27.2	26.5	28.0	28.1	30.3	29.0	28.6	28.9	24.8	23.2	26.9
	min	13.7	16.4	18.1	24.1	24.1	25.1	25.6	25.4	23.1	19.9	16.9	16.8	20.7
	Ave	18.6	20.4	22.7	25.3	26.0	26.6	28.0	27.2	25.9	24.4	20.9	20.0	23.8
Simtokha, Thimphu	max	16.3	17.6	20.5	21.6	24.8	25.0	25.5	27.0	26.4	25.8	20.9	15.7	22.3
	min	-4.6	0.5	4.0	7.4	11.2	16.3	15.8	15.6	14.6	7.7	2.4	-2.3	7.4
	Ave	5.9	9.0	12.2	14.5	18.0	20.7	20.6	21.3	20.5	16.8	11.6	6.7	14.8
Kanglung, Trashigang	max	19.4	21.2	25.7	25.8	27.2	27.9	28.9	27.9	27.7	26.2	22.4	18.3	24.9
	min	3.5	4.5	8.2	9.1	12.2	15.6	16.0	15.8	15.0	10.8	7.4	3.5	10.1
	Ave	11.4	12.8	17.0	17.5	19.7	21.7	22.4	21.9	21.3	18.5	14.9	10.9	17.5

cont...

Table 6.5 cont...

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Trashigang	max	17.0	18.9	23.3	21.2	22.9	24.9	25.1	24.7	25.4	23.2	19.1	15.7	21.8
	min	-0.5	2.7	6.0	8.8	12.2	16.2	16.2	19.0	15.7	9.0	5.7	2.8	9.5
	Ave	8.2	10.8	14.6	15.0	17.5	20.5	20.6	21.8	20.5	16.1	12.4	9.2	15.6
Trongsa	max	14.8	15.7	18.9	17.6	20.2	21.2	22.0	21.7	22.4	21.0	17.8	13.5	18.9
	min	0.9	3.2	6.6	8.8	12.7	15.5	15.3	15.9	15.1	9.7	6.7	3.0	9.5
	Ave	7.9	9.5	12.8	13.2	16.4	18.3	18.7	18.8	18.8	15.4	12.3	8.3	14.2
Tsirang	max	14.1	14.9	18.3	18.7	20.9	21.9	22.9	22.2	22.3	21.1	19.3	15.5	19.4
	min	5.6	6.8	11.3	13.6	16.5	17.7	19.1	18.8	19.1	14.4	9.9	7.0	13.3
	Ave	9.9	10.9	14.8	16.2	18.7	19.8	21.0	20.5	20.7	17.8	14.6	11.2	16.3
Wangdue Phodrang	max	23.7	23.9	26.3	26.6	29.5	30.0	30.5	26.2	29.8	28.9	25.4	21.3	26.8
	min	2.0	6.0	10.7	14.5	17.9	20.3	20.5	20.3	19.6	14.0	9.4	5.4	13.4
	Ave	12.8	15.0	18.5	20.5	23.7	25.1	25.5	23.2	24.7	21.4	17.4	13.4	20.1
Zhemgang	max	14.6	15.6	19.1	19.6	22.1	23.2	24.6	23.9	24.2	22.1	18.4	13.9	20.1
	min	4.2	5.4	9.0	10.6	14.3	17.1	17.4	17.3	16.5	12.2	8.4	4.3	11.4
	Ave	9.4	10.5	14.0	15.1	18.2	20.2	21.0	20.6	20.4	17.2	13.4	9.1	15.8

Source : Metrology Division, Department of Hydromet Services, MoEA, Thimphu.

Table 6.6: Total Monthly Rainfall at Existing Stations in each Dzongkhag, Bhutan, 2015

(Millimeter)

Dzongkhag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bumthang	Chamkher	9.5	6.0	36.7	94.1	75.4	101.5	151.4	129.5	73.0	22.8	3.2	2.4	705.5
	Gyetsa	1.5	1.0	11.0	38.0	129.2	108.6	12.7	8.1	2.7	312.8
Chhukha	Chhukha	17.0	13.2	56.4	257.8	182.7	223.1	249.2	306.2	202.4	13.6	4.4	3.9	1529.9
	Phuntsholing	473.1	1046.3	612.3	39.0	46.5	...	2217.2
Dagana	Dagana Dzong	11.4	5.5	24.9	123.6	98.8	303.6	311.5	273.0	220.4	18.2	4.2	0.0	1395.1
	Drujeygang	32.0	0.0	40.0	182.5	82.1	293.7	371.4	420.6	241.5	0.0	0.0	0.0	1663.8
	Sunkosh	29.2	0.0	...	125.8	67.2	237.1	303.4	281.1	223.5	0.6	0.0	...	1267.9
	Tashithang
Gasa	Gasa Katey	26.0	10.0	180.0	303.0	340.0	526.0	351.0	409.2	303.0	71.0	47.0	24.0	2590.2
	Haa Namjeyling	4.0	32.0	60.5	119.1	71.2	141.8	206.4	215.0	156.1	36.8	0.0	0.0	1042.9
Lhuentse	Khomachu
	Autsho	13.6	2.0	23.8	122.8	101.2	187.8	149.2	262.4	77.0	27.0	10.0	2.2	979.0
	Dungkhar	0.6	0.0	...	7.1	3.8	...	4.7	9.5	...	0.3	1.0	...	26.9
	Tangmachu	15.0	5.7	36.1	108.7	113.6	100.9	119.9	159.8	90.4	11.2	13.2	1.0	775.5
Monggar	Monggar	0.0	0.0	14.4	113.8	66.8	143.8	182.6	229.6	111.9	4.4	7.4	0.0	874.7
	Lingmethang	60.0	1.5	0.9	7.9	70.3
	Sherichu	17.8	0.9	18.2	98.8	84.4	210.8	100.4	208.8	78.2	20.3	0.0	...	838.6

cont...

Table 6.6 cont...

Dzongkhag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Paro	Paro	8.0	12.2	50.2	78.0	42.9	114.0	156.2	80.1	74.0	27.0	3.8	0.0	646.4
	Betikha	0.0	0.0	341.0	511.5	223.0	431.9	760.0	636.0	458.0	55.0	0.0	...	3416.4
	Drukgyel Dzong	0.0	0.0	9.0	84.0	56.0	124.0	174.0	109.5	88.5	36.0	12.0	0.0	693.0
Pema Gatsel	Pemagatshel	22.4	2.8	28.1	222.0	117.9	291.4	212.9	567.5	221.5	4.4	1.4	0.0	1692.3
	Dungmin	0.0	0.0	0.0	685.0	35.0	19.9	609.0	1016.0	-	0.0	0.0	0.0	2364.9
	Yurung Dechenling	18.1	237.5	120.4	342.4	214.3	684.5	272.4	12.2	7.0	0.0	1908.8
Punakha	Punakha	0.5	1.5	10.2	93.9	74.6	187.1	226.1	149.9	57.3	16.2	19.2	0.0	836.5
	Dzong Shelgana	...	12.0	...	104.5	79.0	133.5	115.5	105.8	71.5	30.0	21.0	0.0	672.8
	Deothang	11.5	4.2	74.2	196.0	471.3	942.5	386.0	1128.5	524.0	93.2	7.9	0.6	3839.9
Samdrup Jongkhar	Tendu	16.6	12.6	91.1	246.8	323.3	784.6	588.6	611.0	454.0	38.4	9.8	0.0	3176.8
	Samtse (NIE)	0.0	17.0	79.8	431.0	506.1	906.9	675.0	2088.0	492.0	86.0	4.0	0.0	5285.8
	Sibsoo	20.0	48.8	164.4	409.6	964.0	1223.6	668.8	1270.4	714.5	72.0	24.2	5.2	5585.5
Thimphu	Simtokha	7.6	9.2	23.8	79.0	27.0	99.9	147.2	80.6	80.7	7.8	0.2	0.0	563.0
	Begana	22.0	0.0	38.4	69.7	19.8	164.6	224.8	166.8	0.0	706.1
Sarpang	Surey	29.6	40.0	98.0	429.2	436.4	1002.1	948.6	1397.0	163.8	3.8	3.6	...	4552.1
	Bhur	24.8	2.0	43.9	290.6	467.1	1152.8	785.4	1621.3	757.7	62.6	52.2	0.0	5260.4
	Sarpang	0.0	0.0	0.0	...	318.5	956.5	616.7	1891.7

cont...

Table 6.6 cont...

Dzongkhag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Trashigang	Chazam	18.2	0.0	20.8	175.1	160.3	157.8	72.0	12.6	5.8	0.0	622.6
	Kanglung Radhi	23.6	0.0	24.2	136.1	73.4	250.1	196.6	235.8	54.0	19.4	5.2	2.0	1020.4
	Thrimshing	214.0	...	130.0	163.0	158.0	183.0	9.3	0.0	...	857.3
Trash Yangtse	Thrimshing	7.9	74.0	209.0	138.8	412.6	842.3
	Tashi Yangtse	15.5	0.0	33.4	195.5	184.2	178.5	251.2	235.7	108.8	32.9	24.1	2.1	1261.9
Trongsa	Thragom	26.6	0.2	42.9	170.8	...	184.6	188.2	12.2	15.2	1.4	642.1
	Bjizam	12.9	16.0	42.8	86.4	161.3	351.4	178.3	167.2	90.0	4.4	...	20.0	1130.7
Tsirang	Trongsa	17.1	2.6	60.3	132.2	128.3	406.4	306.6	243.7	119.6	29.6	5.6	5.9	1457.9
	Tsirang	6.2	24.0	3.6	165.8	80.8	329.0	317.0	407.8	298.6	18.2	0.0	1.2	1652.2
Wangdue Phodrang	Wangdue (RNRRC)	4.0	0.0	28.6	48.8	71.0	230.7	170.5	139.1	71.1	10.7	0.1	0.0	774.6
	Gaselo	4.0	2.0	13.0	91.2	60.1	164.5	137.1	285.6	125.9	15.0	2.0	0.0	900.4
	Phobjikha
	Samtengang	0.0	0.0	65.0	86.0	94.0	119.0	...	281.0	197.0	22.0	0.0	0.0	864.0
Zhemgang	Zhemgang	21.6	7.6	41.7	152.3	108.1	303.0	258.6	453.0	200.7	2.2	4.8	1.8	1555.4

Source : Metrology Division, Department of Hydromet Services, MoEA, Thimphu.

Table 6.7: Details of Protected Areas in Bhutan, by Year of Establishment and Area, Bhutan, 2015

Name of Area	Establishment	Area
	year	(Sq.km)
Existing Protected Areas		
Wangchuck Centennial National Park	2008	4,914
Jigme Khesar Strict Nature Reserve	1993	609.51
Jigme Dorji National Park	1995	4,449
Jigme Singye Wangchuck National Park	1995	1,730
Phrumshingla National Park	1998	905.05
Royal Manas National Park	1993	1,057
Sakteng Wildlife Sanctuary	1993	740.6
Bomdeling Wildlife Sanctuary	1994	1,520.61
Phibsoo Wildlife Sanctuary	1993	268.93
Jomotshangkha Wildlife Sanctuary	1993	334.73
Biological Corridors	1999	3,307.14
Royal Botanical Park	2008	47.00
Total		19,883.57

Source: FIMS, FRMD, DoFPS, MoAF, Thimphu

Table 6.8: Disposal of Logwood, Natural Resources Development Corporation Limited, Bhutan, (2011-2015)

Item	Units	2011	2012	2013	2014	2015
Logwood						
Logwood (Urban/ Commercial/ Auction)	Cft	1,757,874	1,988,520	1,747,583	1,758,993	1,903,067
Logwood (Rural)	Cft	213,690	185,306	292,037	112,936	51,850
Firewood	M3	30,360	35,826	32,867	35,988	40,491
Woodchips	M3	20,517	23,406	12,517	10,297	8,005
Sand	M3	501,600	476,280	375,361	303,381	330,132
Stone	Cft.	7,413,600	6,490,080	3,358,657	3,218,790	3,008,570
Stone aggregates from the crushing plant	Cft.	138,850	743,360	944,640	1,450,666	1,901,010
Poles	Numbers	5,322	2,116	2,893	3,633	4,184

Note : a. Firewood supplied only from NRDCL, excludes, the direct allotment by DOFPS

b. Poles include fencing post, dangchung, tshim and flag post

c. Poles supply include only those sold from NRDCL depot and exclude the direct allotment by DOFPS.

Source: FIMS, MoAF, Thimphu.

Table 6.9: Supply of Timber at Commercial, Concessional and Free by Royalties, Bhutan, (2014-2015)

Product Type	2014					
	Commercial	Nu. in Millions	Concessional	Nu. in Millions	Free	Total
Cham	22.85	0.06	533.79	425.82	0.00	556.64
Dangchung	1.93	0.01	6.71	9.21	0.00	8.64
Drashing	385.22	1.01	630.39	582.91	3.65	1019.26
Tsim	1.87	0.02	18.55	95.33	0.00	20.42
Shinglep	0.453	0.004	3.68	1.84	0.00	4.13
Sawn Timber	68.34	1.10	15.32	53.32	0.00	83.66
Firewood	1,075.81	0.78	1072.56	572.60	55.45	2203.82
Flag Poles	1.84	0.01	2.69	11.57	0.00	4.53
Fencing Posts	0.00	0.00	0.00	0.00	0.00	0.00
Other Poles/ Posts	76.35	0.61	98.67	354.64	2.80	177.82
Logs	311.05	17.66	27.61	28.54	0.00	338.66
Woodchips	111.05	0.213	1.70	3.01	0.00	112.74
Others	0.00	0.00	0.00	0.00	0.00	0.00
Total	2,056.75	21.48	2411.67	2138.79	61.91	4530.33

Source: FIMS, MoAF, Thimphu

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(000' M3)

		2015						
	Total Nu. in Millions	Commercial	Nu. in Millions	Concessional	Nu. in Millions	Free	Total	Total Nu. in Millions
	0.59	1,384.59	0.06	20566.34	0.64	0.00	21950.93	0.70
	0.03	53.74	0.01	120.20	0.01	0.00	173.94	0.03
	1.73	4,694.18	2.42	292961.21	11.68	2020.30	297655.39	14.10
	0.14	89.14	0.03	949.97	0.14	0.00	1039.10	0.17
	0.01	46.89	0.02	223.94	0.01	0.00	270.84	0.03
	1.16	1380.301	0.66	145.07	0.03	0.00	1525.37	0.69
	1.49	29,210.87	0.68	34445.82	0.59	12029.99	63656.69	1.26
	0.03	1,257.90	0.32	2830.14	0.16	146.58	4088.04	0.47
	0.00	917.74	0.20	2384.42	0.22	0.00	3302.15	0.43
	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17.69	1001.44	1.03	2.26	0.00	0.00	1003.70	1.03
	0.22	1280.663	0.08	0.00	0.00	0.00	1280.66	0.08
	0.00	2,859.21	0.02	140.44	0.00	0.00	2999.65	0.02
	24.14	44,176.66	5.53	354,769.82	13.47	14,196.87	398,946.48	19.00

Table 6.10: Quantity of Timber Supplied and Royalties Realized by Dzongkhag, Bhutan, (2012-2015)

Division/Park	Quantity of Timber Supplied (M3)					
	2012-2013	Nu. in Millions	2013-2014	Nu. in Millions	2014-2015	Nu. in Millions
Bumthang	24,966	4.93	4,041	0.56	6,757	0.45
Gedu	7,145	0.25	4,903	0.11	7,835	0.47
Mongar	14,723	2.25	10,290	0.80	6,262	0.21
Paro	25,176	1.02	7,299	0.69	9,278	0.28
Samdrup Jongkhar	4,503	0.08	4,283	0.14	3,867	0.42
Samtse	7,247	4.29	2,815	1.53	6,051	1.06
Sarpang	722	4.56	3,282	0.67	8,542	11.88
Thimphu	6,356	0.15	4,498	0.14	5,495	0.15
Trashigang	6,013	1.13	4,914	1.61	14,287	0.57
Tsirang	4,939	16.45	3,362	0.83	6,237	0.33
Wangdue	8,081	0.73	12,174	0.88	22,239	1.96
Zhemgang	2,996	0.26	2,080	0.22	3,614	0.16
Bumdeling Wildlife Sanctuary	1,596	0.70	872	0.59	11,623	0.18
Jigme Dorji National Park	1,968	0.35	7,238	0.35	3,322	0.24
Jigme Singye Wangchuck National Park	619	0.76	400	0.80	973	0.15
Royal Manas National Park	584	0.80	394	0.95	471	0.18
Sakteng Wildlife Sanctuary	5,440	1.20	3,658	17.02	3,543	0.10
Thrumshingla National Park	2,185	0.08	2,332	1.29	4,845	0.18
Wangchuck Centinial Park	1,421	0.70	439	0.78	4,572	0.14
Total	126,680	40.64	79,276	29.94	129,812	19.11

Source: Bhutan RNR Statistics 2015, MoAF

Table 6.11: Distribution of Geographical Area by Agro-Ecological Zones, Bhutan, 2010

Dzongkhag	Total Area (Sq.km)	Distribution of area (Sq.km) by agro-ecological zones					
		Wet Sub-tropical (100-600)	Humid Subtropical (600-1200)	Dry Subtropical (1200-1800)	Warm Temperate (1800-2600)	Cool Temperate (2600-3600)	Alpine (3600-7500)
Bumthang	2,666.89	0.0	0.0	0.0	1.3	36.1	62.6
Chhukha	1,879.55	7.2	17.8	21.3	27.1	23.7	3.0
Dagana	1,712.70	15.8	19.0	19.1	25.7	16.6	4.0
Gasa	2,951.07	0.0	0.0	0.1	2.2	9.8	87.9
Haa	1,904.65	0.0	2.4	6.9	15.0	35.1	40.6
Lhuentse	2,850.76	0.0	1.0	6.9	20.6	30.6	40.9
Monggar	1,940.26	3.3	17.8	27.0	28.7	21.8	1.5
Paro	1,286.93	0.0	0.0	0.0	13.6	42.2	44.3
Pema Gatsel	1,021.94	20.9	41.7	28.1	9.3	0.0	0.0
Punakha	1,109.57	0.0	0.2	17.6	36.7	29.4	16.2
Samdrup Jongkhar	1,876.62	22.9	23.0	25.6	20.8	7.3	0.4
Samtse	1,256.09	20.9	27.7	22.2	21.0	7.3	0.7
Sarpang	1,655.04	25.9	25.1	24.7	21.2	2.8	0.3
Thimphu	1,791.73	0.0	0.0	0.0	6.2	30.2	63.5
Trashigang	2,197.65	0.1	4.4	14.8	29.2	32.7	18.8
Trashigang Yangtse	1,447.35	0.0	2.5	6.8	24.1	34.4	32.2
Trongsa	1,813.71	0.0	2.7	10.2	28.2	41.4	17.5
Tsirang	637.83	7.4	31.6	30.7	22.7	7.0	0.6
Wangdue Phodrang	3,977.28	0.2	3.2	8.9	19.0	32.4	36.4
Zhemgang	2,416.48	11.9	29.6	26.8	19.5	9.9	2.3
Bhutan	38,394.09	5.6	10.2	13.1	18.6	23.9	28.6

Source: Bhutan RNR Statistics 2015, MoAF

Table 6.12: Mineral Production by Type, Bhutan, (2011-2015)

Minerals	2011	2012	2013	2014	2015
Dolomite (metric tonnes)	1,082,300.76	1,499,534.68	1,740,015.95	2,040,690.96	2,662,309.68
Lime stone (metric tonnes)	649,291.20	677,128.94	1,006,234.63	1,122,825.09	850,431.17
Gypsum (metric tonnes)	352,233.95	313,172.96	351,420.64	414,147.54	389,364.80
Coal (metric tonnes)	108,904.47	98,731.18	77,743.58	121,890.58	85,164.45
Marble (metric tonnes)	71,582.49	59,541.68	60,708.49	61,921.10	97,647.84
Slate (square feet)
Quartzite (metric tonnes)	95,015.79	88,630.78	90,909.28	83,907.14	79,818.50
Talc (metric tonnes)	8,562.14	16,062.59	9,584.24	12,601.37	5,807.27
Stone (metric tonnes)	1,842,678.84	1,494,467.05	38,542.28	1,474,394.94	2,203,065.41
Granite (metric tonnes)	462.80	1,806.78	6,463.81	4,362.21	3,889.05
Phyllite (metric tonnes)	8,208.18	1,016.52	13,818.40	40,076.71	40,417.25
Calc Tufa (metric tonnes)	19,897.32	8,872.62
Iron Ore (metric tonnes)	...	3,741.77	20,505.81	18,997.37	43,201.96
Clay	...	7,353.40	15,165.66	10,208.95	...

Source: Department of Geology and Mines, MoEA, Thimphu.

Table 6.13: Mineral Production by Type and Use, Bhutan, (2012-2015)

Minerals	2012			2013			2014			2015		
	Export	Domestic Use	Total	Export	Domestic Use	Total	Export	Domestic Use	Total	Export	Domestic Use	Total
Dolomite (metric tonnes)	1,498,105	1,429	1,499,535	1,730,644	9,372	1,740,016	2,004,877	35,814	2,040,691	2,495,580	166,730	2,662,310
Lime stone (metric tonnes)	47,074	630,054	677,128	49,527	956,707	1,006,235	16,406	1,106,419	1,122,825	24,579	825,853	850,431
Gypsum (metric tonnes)	278,203	34,970	313,173	311,492	39,929	351,421	368,411	45,736	414,148	343,684	45,681	389,365
Coal mines (metric tonnes)	46,608	52,123	98,731	5,202	72,542	77,744	26,574	95,317	121,891	5,403	79,762	85,164
Marble (square feet) I	5,523	54,019	59,542	59,623	1,086	60,708	39,850	22,071	61,921	14,543	83,105	97,648
Slate (square feet) I
Quartzite (metric tonnes)	2,264	86,367	88,631	3,091	87,818	90,909	2,228	81,679	83,907	2,120	77,699	79,818
Talc (metric tonnes)	1,606	5	1,611	9,503	81	9,584	6,917	5,685	12,601	3,470	2,338	5,807
Stone (metric tonnes)	45,866	1,448,601	1,494,467	11,235	27,308	38,542	28,340	1,446,055	1,474,395	104,482	2,098,584	2,203,065
Granite (square feet) I	...	1,807	1,807	...	6,464	6,464	0.00	4,362	4,362	-	63,438	63,438
Phyllite (metric tonnes)	364	652	1,017	...	13,818	13,818	12	40,065	40,077	36,592	3,826	40,417
Calc Tufa (metric tonnes)	...	8,873	8,873
Iron Ore (metric tonnes)	...	3,742	3,742	20,506	...	20,506	0.00	18,997	18,997	...	43,202	43,202
Clay	...	7,353	7,353	15,166	...	15,166	0.00	10,209	10,209

Source: Department of Geology and Mines, MoEA, Thimphu.

Table 6.14: Length of Roads by Type, Bhutan, (2010-2015)

Type of Road	Express-way	Primary National Highway	Secondary National Highway	Dzongkhag Road	Urban Road	Farm Road	Access Road ¹	All road
2010	6.2	1,066.1	295.0	1,980.3	1,313.2	4,660.7
Black topped	6.2	196.5	265.8	0.2	291.2	759.9
Non-black topped	0.0	869.6	29.2	1,980.1	1,022.0	3,900.8
2011	6.2	1,757.2	516.4	1,112.9	303.6	3,289.7	1,380.3	8,366.2
Black topped	6.2	1,604.2	473.9	203.1	272.8	0.7	296.6	2,857.4
Non-black topped	0.0	153.0	42.5	909.8	30.8	3,289.0	1,083.7	5,508.8
2012	6.2	1,768.6	521.2	1,050.9	326.9	4,380.9	1,436.7	9,491.5
Black topped	6.2	1,627.3	473.9	203.1	295.8	0.0	296.7	2,902.9
Non-black topped	0.0	141.4	47.3	847.8	31.2	4,380.9	1,140.0	6,588.5
2013	6.2	1,860.1	578.2	1,178.3	349.7	5,255.2	1,350.5	10,578.2
Black topped	6.2	1,662.4	510.9	202.1	324.5	2.5	266.7	2,975.3
Non-black topped	0.0	197.7	67.3	976.2	25.2	5,252.7	1,083.8	7,602.9
2014	6.2	1,941.7	579.2	1,260.7	349.7	5,707.8	1,398.1	11,243.4
Black topped	6.2	1,758.6	511.1	211.8	327.0	2.5	265.5	3,082.7
Non-black topped	0	183.2	68.1	1,049.0	22.7	5,705.3	1,132.6	8,160.8
2015	6.2	1,974.6	584.5	1,508.0	396.8	5,221.5	1,485.4	11,177.0
Black topped	6.2	1,809.0	515.9	228.1	377.1	2.5	263.1	3,201.9
Non-black topped	0	165.7	68.6	1,279.9	19.7	5,219.0	1,222.3	7,975.1

Note: ¹ Access road includes Forest road and Power tiller road.

a. The national highway before year 2011 is now primary national highway, the distric road is now secondary national highway and the feeder road is now Dzongkhag road, therefore it is not available for the previous year.

Source: Department of Roads, MoWHS, Thimphu.

Table 6.15: Length of Roads by Type and Dzongkhag, Bhutan, June 2015

Dzongkhag	Express-way	Primary National Highway	Secondary National Highway	Dzongkhag Road	Urban Road	Farm Road	Forest Road	Power tiller track	Access Road	(Length in Km)	
										Total	%
Bumthang	0.0	147.0	0.0	52.0	1.7	187.0	47.8	0.0	17.4	452.9	4.1
Chhukha	0.0	255.7	0.0	58.6	28.6	355.4	30.9	23.3	177.3	929.8	8.3
Dagana	0.0	17.9	87.0	62.3	1.5	231.1	18.5	28.1	2.2	448.5	4.0
Gasa	0.0	0.0	48.7	7.0	0.0	11.0	0.0	0.0	3.2	69.8	0.6
Haa	0.0	16.0	32.6	34.0	7.9	153.5	56.0	6.1	0.9	307.0	2.7
Lhuentse	0.0	0.0	45.5	113.4	0.8	358.6	15.2	0.0	86.0	619.4	5.5
Monggar	0.0	211.4	20.0	107.7	12.0	708.7	44.8	2.0	18.2	1,124.9	10.1
Paro	0.0	130.5	62.4	63.7	5.2	353.8	5.2	2.0	25.6	648.3	5.8
Pema Gatshel	0.0	98.2	36.0	116.2	0.0	330.9	17.6	0.0	5.8	604.7	5.4
Punakha	0.0	52.0	35.2	40.3	4.4	312.6	59.0	10.4	21.7	535.7	4.8
Samdrup Jongkhar	0.0	73.8	50.0	51.9	7.3	303.7	11.7	0.0	29.5	527.9	4.7
Samtse	0.0	54.0	49.0	60.4	8.3	237.0	7.0	0.0	8.3	424.0	3.8
Sarpang	0.0	112.6	0.0	40.3	14.6	203.8	111.3	0.0	13.9	496.5	4.4
Thimphu	6.2	93.0	23.5	54.9	262.7	59.7	103.9	0.0	20.3	624.1	5.6
Trashigang	0.0	123.5	5.0	279.3	6.6	530.1	8.5	23.0	41.7	1,017.7	9.1
Trashiyangtse	0.0	0.0	40.0	115.6	8.7	127.2	20.7	0.0	4.2	316.3	2.8
Trongsa	0.0	179.2	0.0	29.9	0.6	124.8	0.0	4.6	6.3	345.4	3.1
Tsirang	0.0	77.0	0.0	25.0	3.3	173.9	6.5	0.0	51.3	337.0	3.0
Wangdue Phodrang	0.0	132.0	0.0	110.8	8.5	257.5	117.8	0.0	120.3	746.9	6.7
Zhemgang	0.0	200.9	49.6	81.1	14.1	220.0	2.3	11.6	20.8	600.4	5.4
Bhutan	6.2	1,974.6	584.5	1,504.3	396.8	5,240.3	684.5	111.1	674.7	11,177.0	99.9

Source: Department of Roads, MoWHS, Thimphu.

Table 6.16: Number of Registered Vehicles by Type and Region, (2011-2015)

Region	Government									Heavy	Medium	
	Heavy	Medium	Light	Two-Wheeler	Power Tiller	TR	EME ¹	Electric Vehicle	Total			
2011	1075	211	2278	1406	21	56	238	...	5285	6,897	1,050	
Thimphu	522	36	1,369	519	12	18	113	...	2,589	2,093	237	
Phuntsholing	456	125	559	554	0	17	51	...	1,762	4,228	705	
Gelephu	54	12	140	107	0	6	35	...	354	246	68	
Samdrup Jongkhar	43	38	210	226	9	15	39	...	580	330	40	
2012	1132	226	2531	1460	21	58	241	...	5669	7,311	1,104	
Thimphu	546	39	1,503	531	12	20	115	...	2,766	2,165	257	
Phuntsholing	481	131	641	581	0	17	51	...	1,902	4,534	733	
Gelephu	57	18	161	113	0	6	35	...	390	264	74	
Samdrup Jongkhar	48	38	226	235	9	15	40	...	611	348	40	
2013	1,176	226	2,510	1,463	58	89	250	...	5,772	7,368	1,121	
Thimphu	550	35	1,480	523	49	47	116	...	2,800	2,169	269	
Phuntsholing	517	135	642	586	0	17	57	...	1,954	4,577	736	
Gelephu	60	18	163	114	0	5	37	...	397	265	76	
Samdrup Jongkhar	49	38	225	240	9	20	40	...	621	357	40	
2014	1,176	231	2,572	1,454	162	91	253	...	5,939	7,298	1,161	
Thimphu	545	39	1,520	520	95	47	118	...	2,884	2,139	288	
Phuntsholing	523	139	668	588	0	17	58	...	1,993	4,535	752	
Gelephu	61	18	162	111	27	6	37	...	422	267	81	
Samdrup Jongkhar	47	35	221	235	40	20	40	...	638	357	40	
Monggar	0	0	1	0	0	1	0	...	2	0	0	
2015	1,185	238	2,512	1,400	333	113	266	28	6,075	7,381	1,244	
Thimphu	532	36	1,405	461	266	55	133	21	2,909	2,055	316	
Phuntsholing	542	146	707	587	0	20	56	7	2,065	4,680	786	
Gelephu	65	19	169	120	27	6	37	0	443	278	91	
Samdrup Jongkhar	45	34	223	232	40	30	40	0	644	359	40	
Monggar	1	3	8	0	0	2	0	0	14	9	11	

Note : ¹ Earth Moving Equipments (EME) include bull dozers, road rollers, pay loaders, excavators, cranes, etc.

a. Excludes vehicles of armed forces.

b. The figures are in cumulative.

Source: Road Safety and Transport Authority, MOIC, Thimphu.

Private									BHT		Diplomats/CD			All Types
Light	Two-Wheeler	Taxi	Power Tiller	TR	EME	Electric Vehicle	Total	Light	Total	Light	Two-Wheeler	Total		
33,807	8,023	4,856	1,009	222	1,478	...	57,272	70	70	65	5	70	62,697	
20,561	3,559	3,305	602	67	463	...	30,817	70	70	65	5	70	33,546	
10,923	2,490	1,343	66	121	939	...	20,815	0	0	0	0	0	22,577	
1,012	849	151	103	8	33	...	2,470	0	0	0	0	0	2,824	
1,311	1,125	57	238	26	43	...	3,170	0	0	0	0	0	3,750	
36,658	8,274	5,354	1,107	225	1,677	...	61,710	70	70	65	5	70	67,519	
22,173	3,656	3,617	697	68	496	...	33,129	70	70	65	5	70	36,035	
11,874	2,580	1,514	66	123	1,090	...	22,514	0	0	0	0	0	24,416	
1,170	886	160	103	8	47	...	2,712	0	0	0	0	0	3,102	
1,441	1,152	63	241	26	44	...	3,355	0	0	0	0	0	3,966	
36,973	8,282	5,191	1,151	229	1,721	...	62,036	56	56	57	5	62	67,926	
22,319	3,636	3,508	740	68	503	...	33,212	56	56	57	5	62	36,130	
11,934	2,587	1,475	66	124	1,125	...	22,624	0	0	0	0	0	24,578	
1,226	895	149	103	11	50	...	2,775	0	0	0	0	0	3,172	
1,494	1,164	59	242	26	43	...	3,425	0	0	0	0	0	4,046	
39,252	8,529	4,109	1,219	238	1,752	...	63,558	55	55	45	5	50	69,602	
23,530	3,746	2,707	804	70	523	...	33,807	55	55	45	5	50	36,796	
12,720	2,680	1,192	66	124	1,134	...	23,203	0	0	0	0	0	25,196	
1,409	900	156	105	17	50	...	2,985	0	0	0	0	0	3,407	
1,539	1,160	54	244	26	45	...	3,465	0	0	0	0	0	4,103	
54	43	0	0	1	0	...	98	0	0	0	0	0	100	
45,222	7,578	3,939	1,382	271	1,942	63	69,022	53	53	39	1	40	75,190	
26,662	2,392	2,652	948	76	600	57	35,758	53	53	39	1	40	38,760	
14,640	2,929	1,030	67	146	1,211	4	25,493	0	0	0	0	0	27,558	
1,885	975	195	113	22	60	2	3,621	0	0	0	0	0	4,064	
1,733	1,177	44	244	26	62	0	3,685	0	0	0	0	0	4,329	
302	105	18	10	1	9	0	465	0	0	0	0	0	479	

Table 6.17: Total Electricity Generation and Supply, Bhutan, (2011-2015)

Details	2011	2012	2013	2014	2015
Installed capacity (MW)	1,497.29	1,497.29	1,498.83	1,498.83	1,614.10
Chhukha hydro power	336.00	336.00	336.00	336.00	336.00
Kurichu hydro power	60.00	60.00	60.00	60.00	60.00
Basochu - I hydro power	24.00	24.00	24.00	24.00	24.00
Basochu - II hydro power	40.00	40.00	40.00	40.00	40.00
THPA	1,020.00	1,020.00	1,020.00	1,020.00	1,020.00
Dagachhu hydro power	126.00
Other hydro power	8.10	8.10	8.10	8.10	8.10
All diesel generators	9.19	9.19	10.73	10.73	8.04
Electricity generation (MU)	7,066.53	6,823.71	7,550.04	7,164.16	7,747.17
Chhukha hydro power	1,774.13	1,742.10	1,907.44	1,797.83	1,867.36
Kurichu hydro power	361.80	360.93	378.60	368.03	379.02
Basochu - I hydro power	114.17	105.82	117.74	109.25	113.21
Basochu - II hydro power	208.12	194.00	212.65	197.08	199.55
THPA	4,587.99	4,405.48	4,914.59	4,675.03	4,821.75
Dagachhu hydro power	350.26
Other hydro power	20.01	15.21	18.48	16.93	16.01
All diesel generators	0.31	0.18	0.54	0.01	0.02
Exports (MU)	5,283.90	4,924.00	5,624.59	5,146.60	5,721.12
Imports (MU)	19.87	36.75	36.75	159.15	124.52
Total energy requirement (MU)	1,713.93	1,853.76	1,924.24	2,085.46	2,122.96
Total energy sales (MU)	1,619.95	1,769.59	3,346.60	3,959.81	4,576.3
Energy losses (MU)	93.98	84.17	82.77	80.63	66.73
Percentage losses (%)	5	5	4	4	3.00
Peak system demand (MW)	276.24	282.44	313.94	333.41	336.52
Length of HT lines (33/11 KV)					
Overhead lines (km)	3,785.99	4,090.35	5,021.27	5,568.40	5,705.57
Underground lines (km)	71.21	81.45	104.41	108.91	105.71
Overhead ABC Conductor (km)	114.45
Length of LT lines					
Overhead lines (km)	5,278.72	5,969.28	6,620.85	7,077.35	1,557.97
Underground lines (km)	189.31	193.35	314.74	360.16	368.50
Overhead ABC Conductor (km)	6,193.79

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 6.18: Consumption of Electricity by Type of Consumer, 2015

Type of Consumer	Energy Sold (MU)	% of Total Sales	No. of Consumers
Domestic rural	94.95	4.62	94,488
Domestic urban	127.90	6.22	45,044
Commercial	52.35	2.54	11,188
Industrial	7.89	0.38	421
Agriculture	2.36	0.11	1,192
Institutions	57.65	2.80	10,470
Street lighting	3.77	0.18	374
Power house auxiliaries	0.91	0.04	32
Temporary connections	21.10	1.03	4,232
LV Bulk	59.93	2.91	770
MV Industries	102.15	4.97	52
HV Industries	1,526.17	74.19	16
Total consumption (MU)	2,057.14	100.00	168,279

Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.

Table 6.19: Percentage of Major Attraction to Bhutan, 2015

Attractions	%
Sight seeing	26.10
Visiting Dzongs/Temples	25.30
Trekking	13.30
Tshechu and Festival	7.50
Textiles	5.90
Flora and fauna	5.90
Wellness and Spa	4.10
Community based	3.60
Bird watching	3.40
Retreat Meditation	2.00
Kayaking/ Rafting	1.70
Motor cycling/ Biking	0.80
Fishing	0.40

Source: Tourism Council of Bhutan, Thimphu.

Table 6.20: Import of Petroleum Products by Volume and Value, (2011-2015)

PoL Products	2011		2012		2013		2014		2015	
	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million
Diesel (HSD)	105,872.06	3,644.70	124,209.22	4,695.27	126,120.29	5,655.31	117,615.80	5,865.98	126,139.40	5,262.71
Petrol(KL)	26,877.82	1,369.43	29,316.90	1,636.28	30,272.20	1,750.31	31,458.20	1,826.52	33,846.60	1,692.97
Kerosene (S.K oil)	5,658.81	70.41	5,567.01	73.86	4,966.01	67.38	24.00	1.25	48.00	2.13
SKO (Industrial)	120.15	5.74	0.00	0.00	0.00	0.00	21.00	1.23	12.00	0.51
Kerosene type jet fuel(ATF)	1,455.00	71.96	2,082.02	120.46	3,168.00	197.09	3,585.00	219.69	3,291.00	142.08
LPG	7,458.61	181.45	7,480.71	194.96	6719.48	181.77	7,056.18	183.38	7,289.73	188.94
Lubricating Oil	1,929.99	275.70	2,380.92	365.25	2,573.47	404.56	2,512.93	414.69	3,378.26	397.50
Furnance Oil	13,985.34	95.40	1,363.36	64.97	721.58	34.03	473.35	22.11	1,302.20	37.45
LDO	322.00	17.09	189.11	11.43	204.00	13.49	3,698.00	198.83	136.00	6.20
Petroleum Bitumen	4,956.24	187.91	17,184.00	704.40	5,594.84	260.75	7,563.67	376.85	11,778.43	479.68
Others (waste oils)	235.48	17.38	225.17	17.51	218.28	21.66	172.03	19.65	5.40	0.89
Others (containing biodiesel other than waste oils)	3.05	0.19	19.33	2.07	58.29	1.70	2.51	0.48

Source: *Bhutan Trade Statistics*, DRC, MoF, Thimphu

Table 6.21: Total Ghg Emissions in Bhutan, 2000

GHG Sources & Sink	Total(CO ₂ , CH ₄ and N ₂ O), CO ₂ -equiv	GHG, Giga Grams						
		CO ₂	CH ₄	N ₂ O	NO _x	CO	NMVOC	SO ₂
1 Energy	270.23	260.31	0.38	0.01	1.76	9	1.3	0.96
2 Industrial Prozesse	237.76	237.76	0	0	0	0	1.69	0.1
3 Solvent & Other Product Us	0	0	0	0	0	0	0	0
4 Agriculture	1005.3	0	25.85	1.49	0.2	0.41	0	0
5 Land-Use Change and Forestry	-6,309.00	-6,309.00	0	0	0	0	0	0
6 Waste	46.27	0	2	0.01	0	0	0	0
Total GHG Emission, excluding LUCF	1559.56	498.07	28.23	1.51	1.78	9.41	4.7	1.05
Total GHG Emission, including LUCF	-4750.04	-5810.9	28.23	1.51	1.78	9.41	4.7	1.05

Source: Second National Communication to the UNFCCC, NEC

Table 6.22: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag, (2011-2015)

Microgram/M3

Month	2011	2012	2013		2014	2015
	NEC office top	NEC of- fice top	City RBP Office roof top	NEC office roof top	NEC office roof top	NEC office roof top
January	57.625	57.595	84.46	66.33	59.65	...
Febuary	50.338	50.831	100.92	54.47	67.15	33.86
March	54.859	76.033	98.07	64.87	58.89	48.77
April	40.863	41.374	76.51	49.56	43.99	44.34
May	19.243	38.820	51.27	33.84	41.35	29.16
June	21.044	31.073	39.73	16.06	24.91	23.65
July	12.008	22.510	27.39	7.56	...	12.58
August	...	15.683	33.01	7.95	...	15.74
September	...	17.253	64.18	18.65	14.84	62.61
October	26.992	39.831	47.28	21.75
November	33.598	54.787	97.24	51.10	35.08	...
December	41.765	68.862	105.49	57.55	54.63	138.88

Note : Due to technical problem PM 10 concentration couldnot be measured in missing months

Source: Climate Change Division, National Environment Commission, Thimphu

Industries cover the whole range of industrial activities carried out by businesses in all fields including mining, manufacturing, wholesale and retail trade, and other service industries. In Bhutan, the industrial sector has until recently played a relatively small role in the economy.

The mining industry in Bhutan is as yet relatively undeveloped. The kingdom has significant deposits of a number of mineral resources, including limestone, coal, graphite, gypsum, slate and dolomite. Most mining activities are limited to relatively small operations, mainly involved in the mining of dolomite, gypsum, limestone, slate, coal, marbles, quartzite and talc. The manufacturing industry is dominated by a small number of major operators such as the Penden Cement Authority Ltd., the Bhutan Board Products Ltd., Bhutan Carbide and Chemicals Ltd., the Bhutan Ferro Alloys Ltd. and Bhutan Agro Industries Ltd. Besides these, there are a number of other small manufacturing plants concentrated in the food processing activities. Cottage industry also plays a prominent role with its good timber resources and favorable agricultural conditions.

As the industrial sector grows in Bhutan, statistics on industry will become increasingly important. The Department of Industry keeps a record of all industrial licenses and activities. Besides, Censuses of Manufacturing Industries conducted at regular intervals viz. Industrial Census of 1998 and 2001 have been the source of important information on Industries. For example, information on the number of industries in operation, types of industries, and employment in industries etc. presented in this chapter is the results from those Censuses. Most of the existing industrial establishments are small scale or cottage industries.

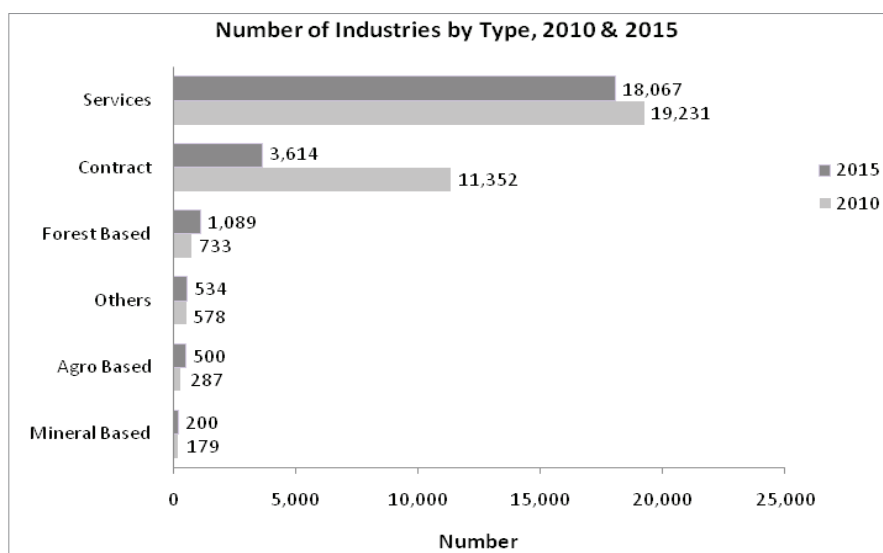


Table 7.1: Number of Industrial Establishments by Sector, Bhutan, (2011-2015)

Sector	2011	2012	2013	2014	2015
Production & manufacturing	1,977	2,240	2,485	2,823	2,073
New registration	221	256	242	335	294
Existing establishments	1,756	1,984	2,243	2,488	1,779
Services	20,799	22,365	24,322	26,465	18,067
New registration	1,632	1,583	1,906	2,128	790
Existing establishments	19,167	20,782	22,416	24,337	17,277
Contract	11,916	12,677	13,144	13,511	4,298
New registration	594	756	467	363	31
Existing establishments	11,322	11,921	12,677	13,148	4,267
Trade	20,373	19,423	22,331	27,048	31,150
New registration	3,603	3,632	4,801	5,092	4,102
Existing establishments	16,770	15,791	17,530	21,956	27,048
All sectors	55,065	56,705	62,282	69,847	55,588

Note : The figures for P&M, Services and Contract includes all Large, Medium, Cottage and Small Industries

Source: Department of Industry, Department of Trade, MoEA, Thimphu.

Table 7.2: Number of Licensenced Firms in Manufacturing and Mining Industries by Sub Sector and Ownership, Bhutan, (2012-2015)

Industry	2012				2013				2014				2015			
	Public	Joint	Private	Total	Public	Joint	Private	Total	Public	Joint	Private	Total	Public	Joint	Private	Total
Mining	19	3	72	94	19	3	69	91	11	3	78	92	11	3	80	94
Manufacturing	27	9	2,141	2,177	26	10	2,449	2,485	31	9	2,711	2,751	42	7	156	205
Food processing/ milling	7	2	316	325	7	2	339	348	7	2	400	409	9	1	37	47
Textiles and Clothing	0	0	26	26	0	0	23	23	0	0	34	34	0	0	7	7
Wood and Paper Products	3	3	948	954	3	2	1089	1094	5	1	1263	1269	4	1	15	20
Mineral Products	6	3	164	173	6	3	172	181	7	3	182	192	13	2	45	60
Others	11	1	687	699	10	3	759	772	12	3	832	847	16	3	52	71
Total	46	12	2,213	2,271	45	13	2,518	2,576	42	12	2,789	2,843	53	10	236	299

Note: The data for the year 2015 reflects only for the DoI and DGM. The data from DCSI couldnot incorporate due to some problem in segregation of ownership.

Source: Department of Industry, Department of Geology & Mines, MoEA, Thimphu.

Table 7.3: Number of Industries by Ownership, Size and Type, Bhutan, (2011-2015)

Industrial Establishments	2011	2012	2013	2014	2015
Ownership	34,692	37,282	39,951	42,799	24,438
Private	34,550	37,155	39,814	42,634	23,965
Joint	46	27	29	26	171
Public	96	100	108	139	302
Size	34,692	37,282	39,951	42,799	24,438
Large scale	133	141	162	177	203
Medium scale	220	240	268	296	327
Small scale	2,649	3,014	3,053	3,659	5,785
Cottage scale	19,774	21,210	23,324	25,156	16,819
Other (Contract)	11,916	12,677	13,144	13,511	1,304
Type	34,692	37,282	39,951	42,799	24,688
Production & Manufacturing	1,977	2,240	2,485	2,823	2,325
Agro based	291	325	348	409	501
Forest based	831	954	1,094	1,269	1,089
Mineral based	209	236	248	264	200
Others	646	725	795	881	535
Contract	11,916	12,677	13,144	13,511	4,298
Services	20,799	22,365	24,322	26,465	18,065

Note : a. Public includes company and others (Government owned, Dratshang and Schools)

b. The bars are also included under Small and Cottage Industries

Source: Department of Industry and Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.4: Number of Contract Firms by Size, by Dzongkhag, Bhutan, 2015

Dzongkhag	Size of Contract Firm	Total
	Small	
Bumthang	92	92
Chhukha	222	222
Dagana	102	102
Gasa	16	16
Haa	99	99
Lhuentse	58	58
Monggar	99	99
Paro	199	199
Pema Gatshel	124	124
Punakha	91	91
Samdrup Jongkhar	100	100
Samtse	147	147
Sarpang	285	285
Thimphu	769	769
Trashigang	129	129
Trongsa	84	84
Tsirang	80	80
Wangdue Phodrang	137	137
Zhemgang	73	73
Bhutan	2,994	2,994

Note : There is only one scale for Contract (Small scale) with regard to Cottage and Small scale

Source: Department of Industry, MoEA, Thimphu.

Table 7.5: Number of Contract Firms by Size, by Dzongkhag, Bhutan, 2015

Dzongkhag	Size of Contract Firm		Total
	Medium	Large	
Bumthang	10	1	11
Chhukha	28	14	42
Dagana	4	0	4
Gasa	0	0	0
Haa	49	1	50
Lhuentse	10	0	10
Monggar	27	3	27
Paro	81	1	82
Pema Gatshel	14	1	15
Punakha	11	4	15
Samdrup Jongkhar	15	6	21
Samtse	9	0	9
Sarpang	21	18	39
Thimphu	648	167	815
Trashigang	54	6	60
Trongsa	13	0	13
Tsirang	28	18	46
Wangdue Phodrang	24	2	26
Zhemgang	5	1	6
Bhutan	1,058	246	1,304

Source: Department of Industry, MoEA, Thimphu.

Table 7.6: Number of Industrial Firms in Small and Cottage, by Dzongkhag, Bhutan, 2015

Dzongkhag	Scale of Industry		Total
	Small	Cottage	
Bumthang	166	597	763
Chhukha	458	2,152	2,610
Dagana	121	420	541
Gasa	17	78	95
Haa	129	197	326
Lhuentse	78	182	260
Monggar	142	666	808
Paro	442	1,178	1,620
Pema Gatshel	184	467	651
Punakha	127	569	696
Samdrup Jongkhar	149	655	804
Samtse	203	695	898
Sarpang	404	1,295	1,699
Thimphu	2,360	4,959	7,319
Trashigang	178	578	756
Trongsa	111	414	525
Tsirang	104	332	436
Wangdue Phodrang	215	758	973
Zhemgang	86	365	451
Bhutan	5,785	16,819	22,604

Note : The bar license are included under Small & Cottage Industries.

Source: Department of Industry, MoEA, Thimphu.

Table 7.7: Number of Industrial Firms in Large and Medium, by Dzongkhag, Bhutan, 2015

Dzongkhag	Scale of Industry		Total
	Large	Medium	
Bumthang	3	13	16
Chhukha	74	64	138
Dagana	1	3	4
Gasa	0	0	0
Haa	0	2	2
Lhuentse	0	0	0
Monggar	2	7	9
Paro	10	40	50
Pema Gatshel	7	6	13
Punakha	7	12	19
Samdrup Jongkhar	9	7	16
Samtse	13	18	31
Sarpang	9	10	19
Thimphu	55	113	168
Trashigang	1	2	3
Trongsa	2	5	7
Tsirang	0	2	2
Wangdue Phodrang	10	20	30
Zhemgang	0	2	2
Bhutan	203	327	530

Source: Department of Industry, MoEA, Thimphu.

Table 7.8: Number of Industries by Type in Large and Medium by Dzongkhag, Bhutan, 2015

Dzongkhag	Agro Based	Forest Based	Mineral Based	Ser-vices	Con-tract	Others	All Types
Bumthang	0	0	1	279	11	0	291
Chhukha	29	11	25	1,005	42	50	1,162
Dagana	0	0	2	225	4	1	232
Gasa	0	0	0	58	0	0	58
Haa	0	0	0	97	50	0	147
Lhuentse	0	0	0	123	10	0	133
Monggar	0	0	3	362	30	2	397
Paro	1	0	4	543	82	2	632
Pema Gatshel	0	0	7	252	15	3	277
Punakha	0	0	0	342	15	0	357
Samdrup Jongkhar	2	2	5	349	21	1	380
Samtse	6	2	16	314	9	3	350
Sarpang	4	1	2	505	39	2	553
Thimphu	3	4	8	1,635	815	12	2,477
Trashigang	0	0	1	91	10	0	102
Trashigang	1	0	0	352	60	0	413
Trongsa	0	0	3	223	13	1	240
Tsirang	0	0	0	97	46	0	143
Wangdue Phodrang	1	0	11	395	26	1	434
Zhemgang	0	0	1	181	6	0	188
Bhutan	47	20	89	7,428	1,304	78	8,966

Source: Department of Industry, MoEA, Thimphu.

Table 7.9: Establishments by type of Ownership and Category, Bhutan, 2016

(Numbers)

Ownership	Establishment Category			Total
	Large	Medium	Small	
Privately owned	121	391	5,348	5,860
Government owned	10	0	6	16
Foreign control	1	2	2	5
Joint venture	2	0	1	3
Total	134	393	5,357	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.10: Establishments by Trade Region and Type of Ownership, Bhutan, 2016

(Numbers)

Major Economic Activity	Ownership				Total
	Privately Owned	Government Owned	Foreign Owned	Joint Venture	
Thimphu	2,667	5	1	0	2,673
Phuentsholing	1,250	10	0	1	1,260
Samdrup Jongkhar	638	0	1	0	638
Gelephu	472	1	3	2	478
Monggar	432	0	0	0	432
Trongsa	401	0	0	0	401
Total	5,860	16	5	3	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.11: Establishment by Major Economic Activity and Category, Bhutan, 2016

Major Economic Activity	Establishment Category			Total
	Large	Medium	Small	
Agriculture and Forestry	0	1	19	20
Mining and Quarrying	3	5	3	11
Manufacturing	21	46	390	457
Electricity, Gas and Water Supply	1	1	0	2
Construction	12	12	7	31
Wholesale & Retail trade	71	227	3,168	3,466
Hotels and Restaurants	12	69	1,314	1,395
Transport & Communication	2	8	45	55
Financial Intermediation	2	0	0	2
Real Estate, Renting and Business Activities	6	7	110	123
Public Administration	1	0	3	4
Education	2	9	29	40
Health and Social Work	1	8	268	277
Private Households with Employed Persons	0	0	1	1
All Activities	134	393	5,357	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.12: Establishments by Type of Legal Organization and Category, Bhutan, 2016

(Numbers)

Legal Organization	Establishment Category			Total
	Large	Medium	Small	
Sole Proprietorship	106	371	5,326	5,803
Partnership	6	7	23	36
Private Limited Company	8	14	5	27
Public Limited Company	14	1	3	18
Total	134	393	5,357	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.13: Establishments by Major Economic Activity by Dzongkhag, Bhutan, 2016

Dzongkhag	Type of Establishment							
	Agriculture & Forestry	Mining & Quarrying	Manufacturing	Electricity, Gas and Water Supply	Construction	Wholesale & Retail Trade	Hotels & Restuarents	
Bumthang	1	0	27	0	0	67	33	
Chhukha	1	1	90	1	2	468	323	
Dagana	0	0	2	0	2	65	13	
Gasa	0	0	0	0	0	3	0	
Haa	8	0	6	0	0	71	20	
Lhuentse	0	0	2	0	1	39	3	
Monggar	0	0	19	0	0	139	61	
Paro	1	0	26	0	0	306	107	
Pema Gatshel	0	0	15	0	6	105	43	
Punakha	0	0	17	0	0	112	39	
Samdrup Jongkhar	0	3	35	0	5	191	113	
Samtse	1	2	27	0	0	122	102	
Sarpang	0	2	23	0	5	190	52	
Thimphu	4	0	90	1	5	1,056	316	
Trashigang	0	0	11	0	2	114	11	
Trashi Yangtse	0	0	12	0	2	51	18	
Trongsa	2	1	16	0'	0	53	27	
Tsirang	0	0	1	0'	1	67	19	
Wangdue Phodrang	0	2	7	0'	0	154	63	
Zhemgang	2	0	31	0'	0	93	32	
Bhutan	20	11	457	2	31	3,466	1,395	

Source: Establishment Census Report, 2016, MoLHR.

(Numbers)

	Transport & Communication	Financial Intermediation	Real Estate, Renting & Business activities	Public Administration	Education	Health & Social Work	Private Households with Employed Persons	Total
	0	0	0	0	0	4	0	132
	10	0	31	1	4	59	0	991
	0	0	1	0	0	1	0	84
	0	0	0	0	0	0	0	3
	0	0	2	0	4	3	0	114
	0	0	1	0	0	0	0	46
	0	0	2	0	3	11	0	235
	2	0	6	0	3	27	0	478
	1	0	2	0	2	5	0	179
	0	0	0	0	1	8	0	177
	1	0	16	1	4	6	0	375
	0	0	7	0	0	9	0	270
	1	0	15	1	4	8	0	301
	40	2	32	1	12	100	1	1660
	0	0	2	0	0	11	0	151
	0	0	0	0	1	1	0	85
	0	0	2	0	0	2	0	103
	0	0	2	0	0	3	0	93
	0	0	2	0	2	11	0	241
	0	0	0	0	0	8	0	166
	55	2	123	4	40	277	1	5,884

Table 7.14: Establishments by Major Economic Activity and Type of Legal Organization, Bhutan, 2016

(Numbers)

Major Economic Activity	Legal Organization				Total
	Sole Proprietorship	Partnership	Private Limited Company	Public Limited Company	
Agriculture and Forestry	20	0	0	0	20
Mining and Quarrying	8	0	1	2	11
Manufacturing	432	5	11	9	457
Electricity, Gas and Water Supply	0	0	1	1	2
Construction	25	2	4	0	31
Wholesale & Retail Trade	3,448	12	3	3	3,466
Hotels & Restaurants	1,387	7	1	0	1,395
Transport & Communication	49	4	2	0	55
Financial Intermediation	0	0	0	2	2
Real Estate, Renting & Business Activities	118	3	2	0	123
Public Administration	2	1	0	1	4
Education	37	2	1	0	40
Health and Social Work	276	0	1	0	277
Private households with Employed Persons	1	0	0	0	1
Total	5,803	36	27	18	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.15: Establishments by Nationality of Owners, by Dzongkhag, 2016

(Numbers)

Dzongkhag	Nationality of Owners			Total
	Bhutanese	Foreigner	Both	
Bumthang	132	0	0	132
Chukha	906	84	1	991
Dagana	84	0	0	84
Gasa	3	0	0	3
Haa	114	0	0	114
Lhuentse	46	0	0	46
Mongar	235	0	0	235
Paro	477	1	0	478
Pemagatshel	179	0	0	179
Punakha	177	0	0	177
Samdrup Jongkhar	327	47	1	375
Samtse	260	10	0	270
Sarpang	261	39	1	301
Thimphu	1,656	4	0	1,660
Tashigang	151	0	0	151
Trashiyangtse	85	0	0	85
Trongsa	103	0	0	103
Tsirang	93	0	0	93
Wangdue	241	0	0	241
Zhemgang	166	0	0	166
Bhutan	5,696	185	3	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.16: Establishments by Gender of Establishment Owners, by Dzongkhag, 2016

(Numbers)

Dzongkhag	Gender of the Establishment Owner		Total
	Male	Female	
Bumthang	63	69	132
Chukha	529	462	991
Dagana	42	42	84
Gasa	1	2	3
Haa	50	64	114
Lhuentse	22	24	46
Mongar	105	130	235
Paro	206	272	478
Pemagatshel	105	74	179
Punakha	69	108	177
Samdrup Jongkhar	191	184	375
Samtse	130	140	270
Sarpang	176	125	301
Thimphu	689	971	1,660
Tashigang	67	84	151
Trashiyangtse	29	56	85
Trongsa	36	67	103
Tsirang	50	43	93
Wangdue	106	135	241
Zhemgang	55	111	166
Bhutan	2,721	3,163	5,884

Source: Establishment Census Report, 2016, MoLHR.

Table 7.17: Number of Employees by Trade Region, Nationality and Gender, 2016

Dzongkhag	Bhutanese Workers			Foreign Workers			Total
	Male	Female	Total	Male	Female	Total	
Thimphu	2,806	2,534	5,340	95	18	113	5,453
Phuentsholing	3,691	1,429	5,120	1,762	426	2,188	7,308
Samdrup Jongkhar	690	342	1,032	480	50	530	1,562
Gelephu	435	245	680	313	31	344	1,024
Monggar	227	107	334	31	0	31	365
Trongsa	340	190	530	6	0	6	536
Bhutan	8,189	4,847	13,036	2,687	525	3,212	16,248

Source: Establishment Census Report, 2016, MoLHR.

Table 7.18: Number of Employees by Trade Region, Nationality, Gender and Nature of Employment, Bhutan, 2016

Trade Region	Bhutanese Workers							
	Male				Female			
	Regular	Casual	Contract	Total	Regular	Casual	Contract	Total
Thimphu	2,528	170	108	2,806	2,260	144	130	
Phuentsholing	3,033	615	43	3,691	1,016	391	22	
Samdrup Jongkhar	657	10	23	690	317	5	20	
Gelephu	211	203	21	435	99	132	14	
Monggar	190	12	25	227	93	0	14	
Trongsa	263	37	40	340	148	11	31	
Total	6,882	1,047	260	8,189	3,933	683	231	

Source: Establishment Census Report, 2016, MoLHR.

Table 7.19: Number of Employed Persons by Major Economic Activity, Nationality, Gender and Nature of Employment, Bhutan, 2016

Major Economic Activity	Bhutanese Workers							
	Male				Female			
	Regular	Casual	Contract	Total	Regular	Casual	Contract	Total
Agriculture and Forestry	62	29	0	91	19	0	0	
Mining and Quarrying	483	21	22	526	118	0	5	
Manufacturing	2,072	595	27	2,694	714	51	20	
Electricity, Gas and Water Supply	109	52	0	161	2	0	0	
Construction	172	73	31	276	48	9	9	
Wholesale & Retail Trade	1,974	122	66	2,162	886	98	58	
Hotels & Restaurants	603	46	31	680	922	89	62	
Transport & Communication	348	2	0	350	176	2	5	
Financial Intermediation	309	0	23	332	297	1	19	
Real Estate, Renting & Business Activities	284	37	7	328	164	27	5	
Public Administration	83	14	26	123	36	2	5	
Education	245	10	20	275	274	7	31	
Health and Social Work	138	46	7	191	277	37	12	
Private households with Employed Persons	0	0	0	0	0	0	0	
Total	6,882	1,047	260	8,189	3,933	323	231	

Source: Establishment Census Report, 2016, MoLHR.

		Foreign Workers								Grand Total
		Male				Female				
	Total	Regular	Casual	Contract	Total	Regular	Casual	Contract	Total	
	2,534	76	13	6	95	15	0	3	18	5,453
	1,429	1,189	517	56	1,762	254	168	4	426	7,308
	342	29	314	137	480	1	38	11	50	1,562
	245	45	234	34	313	4	27	0	31	1,024
	107	29	0	2	31	0	0	0		365
	190	6	0	0	6	0	0	0		536
	4,847	1,374	1,078	235	2,687	274	233	18	525	16,248

		Foreign Workers								Grand Total
		Male				Female				
	Total	Regular	Casual	Contract	Total	Regular	Casual	Contract	Total	
	19	0	0	0	0	0	0	0	0	110
	123	16	50	9	75	1	0	1	2	726
	785	352	527	78	957	25	127	1	153	4,589
	2	0	6	0	6	0	0	0	0	169
	66	19	13	36	68	0	6	0	6	416
	1,042	652	294	53	999	48	10	2	60	4,263
	1,073	244	163	48	455	156	90	10	256	2,464
	183	4	0	0	4	0	0	0	0	537
	317	0	0	2	2	0	0	0	0	651
	196	32	4	2	38	4	0	0	4	566
	43	0	0	1	1	0	0	1	1	168
	312	28	0	4	32	17	0	3	20	639
	326	27	21	2	50	23	0	0	23	590
	0	0	0	0	0	0	0	0	0	0
	4,487	1,374	1,078	235	2,687	274	233	18	525	15,888

Table 7.20: Establishments by Dzongkhag and reasons for expansion, 2016

Dzongkhag	Reasons for expansion				Total
	Increased demand for goods & services	Product diversification	Easy access to credit facilities	Others	
Bumthang	52	6	0	6	64
Chukha	325	13	7	117	462
Dagana	33	0	0	0	33
Gasa	0	0	0	1	1
Haa	15	1	0	0	16
Lhuentse	6	4	0	3	13
Mongar	101	9	0	19	129
Paro	74	1	0	27	102
Pemagatshel	25	4	0	6	35
Punakha	69	1	0	19	89
Samdrup Jongkhar	74	1	2	18	95
Samtse	86	2	2	87	177
Sarpang	119	4	1	5	129
Thimphu	477	26	9	99	611
Tashigang	34	11	3	10	58
Trashiyangtse	43	3	2	5	53
Trongsa	40	7	1	5	53
Tsirang	31	3	1	0	35
Wangdue	39	1	0	34	74
Zhemgang	78	8	0	20	106
Bhutan	1,721	105	28	481	2,335

Source: Establishment Census Report, 2016, MoLHR.

An efficient road system for a landlocked country assumes paramount importance as it plays a crucial role in supporting all development activities and in stimulating domestic and international trade. The first appearance of motor vehicle was in 1962 and surface transport continues to be the main means of transport. The Bhutan Government Transport Service (BGTS) originally entrusted with goods transportation was restructured to concentrate on passenger transport. The gradual privatization of the passenger transport services began in 1985 on pilot basis and was achieved fully by October 1991 with 21 operators managing a fleet of more than 100 buses on 73 routes. As of December 2015, there were 75,190 registered vehicles in Bhutan.

The Government, in order to promote and develop the surface transport, with emphasis on safety, formulated the Roads Safety and Transport Act, which became operational since October 1997. In the last 27 years, tremendous achievements were made in establishing 6920.10 kilometers of motorable roads and several motorable bridges. In the difficult areas where the construction of motorable road has not yet begun, suspension bridges provide the vital transport links. Today, the Department of Roads under the Ministry of Works and Human Settlements is responsible for the design and planning of roads and in setting standards for quality.

Druk Air, the national airline was founded in April 1981 and was commercialized in February 1983. It is a Government owned airline run by the Druk Holding Investment. Bhutan established its first international air links with Kolkata, followed by six destinations in South Asia, including Bangkok. The Division of Civil Aviation was established in January 1986 to provide infrastructure and air traffic services and to regulate the airline industry and it became the member of ICAO (International Civil Aviation Organization). The Paro International Airport inaugurated on 10th April 1999 has taken the air transport sectors further ahead in providing reliable, safe and comfortable travel services. Druk Air Corporation Limited also introduced domestic flights to Bumthang, Younphula (Trashigang) and to Gelephu (Sarpang) in 2011.

Tashi Air Pvt. Ltd, Bhutan's first Private Airline came into existence after the Tashi Group of Companies, outbid other joint ventures companies and won the License to operate Airline Service both Domestic and International Sectors. On 4th December 2011, Tashi Group of Companies introduced its first aircraft Bhutan Airline for domestic operations. It started its international operation on 10th October 2013. Later on 1st of May 2014, Bhutan Airlines started its fleet with new Airbus A319 with 122 seating capacity.

Since the establishment of first telephone network in 1963 the ICT sector has come a long way. Telecommunication network has changed from physical wire network to a national digital network today. Bhutan's first satellite international link was established in 1990 with the installation of the

Earth satellite station and an international gateway switch in Thimphu. By March 1999 all the 20 district headquarters had access to telecommunication services.

The national telecommunication network opened the path to global information network. On 2nd June 1999, the country established the first television network and also started the Internet Services. Since then, the information and communication technology such as Internet provides access to global information and plays an important role in the everyday affairs. Bhutan Telecom Limited (BTL) is the leading provider of telecommunications and Internet services in the Kingdom of Bhutan. Besides fixed line telephony, it provides GSM Mobile services under its flagship brand B-Mobile, and Internet Services under the brand name of DrukNet which was launched on 11th November 2003 coinciding with His Majesty

Fourth Druk Gyalpo's Birthday. Later, Tashi InfoComm Limited, Bhutan's first private mobile company came into existence on October 2006. Now, B-mobile and TashiCell has its services available in all 20 Dzongkhags.

The Postal Service in Bhutan was first launched on 10th October 1962 with the opening of a post office in Phuentsholing. It was called the Department of Posts and Telegraphs under the Ministry of Communications. Initially, the services offered were basic services such as letter mail, postcards and parcels. International mail was only exchanged with India. On 1st October 1996, The Division of Posts and Telegraphs was converted to autonomous Commercial Corporation as Bhutan Post. Bhutan became a member of the Universal Postal Union (UPU) and member of the Asian Pacific Postal Union (APPU) in 1983.

Today, there are in total 128 postal infrastructures in the country. Its portfolio of services also developed and improved over time and an International Express Mail Service (EMS) was introduced in July 1993. Express mail services were introduced into the domestic sector in 1966. Money order

services were improved with the introduction of Facsimile Money Order for Bhutan and Express Money Order (EMO) for exchange with India. In 1997, Bhutan Post set up a transport network for the purpose of carrying both passenger and mail. This network presently covers between Thimphu and Phuentsholing and between Phuentsholing and Calcutta.

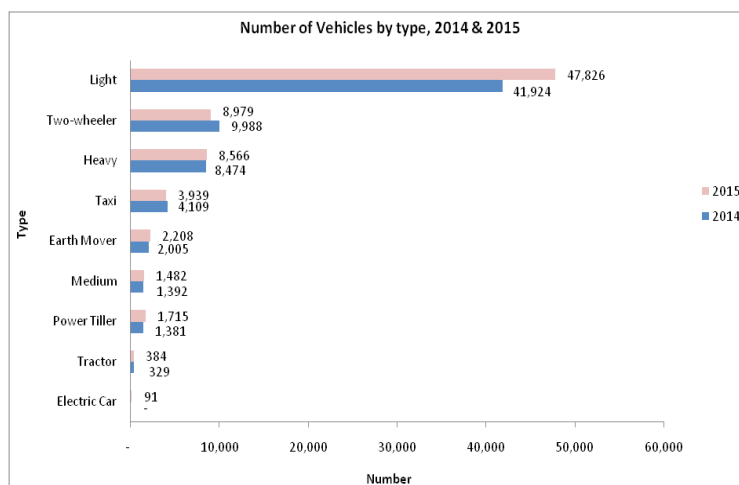


Table 8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2016

(Length in m)

Type of Bridges	Number	%	Length	%
Permanent bridges	194	57.1	6,682.00	57.8
RCT Beam / T-Girder	73	21.5	1,525.70	13.2
RCC Slab	29	8.5	521.25	4.5
Pre-Stressed Concrete	16	4.7	899.00	7.8
RCC Arch	4	1.2	383.00	3.3
Composite	20	5.9	421.00	3.6
Steel Pony Truss	4	1.2	190.00	1.6
Steel Arch	9	2.6	896.25	7.8
Steel Hamilton	9	2.6	291.60	2.5
Steel Truss / Girder	19	5.6	1,201.20	10.4
M-Cell Box Culvert	6	1.8	296.00	2.6
Submersible
RCC bridges on GC Roads	5	1.5	57.00	0.5
Temporary (semi-permanent) bridges	146	42.9	4,881.67	42.2
Bailey Bridges	87	25.6	2,564.60	22.2
Bailey SN	1	0.3	310.98	2.7
Bailey bridges on Farm Roads	14	4.1	374.99	3.2
Bailey bridges on GC & Farm Roads in various Dzongkhags (2013)	44	12.9	1,631.10	14.1
All bridges	340	100.0	11,563.67	100.0

Source: Bridge Division, DoR, MoWHS, Thimphu.

Table 8.2: Number of Pedestrian Bridges Constructed Since 5Th Five Year Plan by Dzongkhag, June 2016

Dzongkhag	Five Year Plans periods								Total Constructed (I -XI)	Percent (I -XI)	Existing Bridge as of present
	IV & Before	V	VI	VII	VIII	IX	X	XI			
Bumthang	1	7	3	4	2	2	1		20	3.77	18
Chhukha	3	5	1	3	4	2	4	1	23	4.33	16
Dagana	3	4	2	5	4	4	6		28	5.27	23
Gasa	0	0	2	2	2	1	0		7	1.32	3
Haa	3	6	1	4	2	0	1	1	18	3.39	15
Lhuentse	3	4	2	4	4	6	5		28	5.27	22
Monggar	9	5	2	5	6	7	7		41	7.72	33
Paro	3	8	3	2	2	2	3	1	24	4.33	21
Pema GatsHEL	5	11	2	4	6	4	5		37	6.97	28
Punakha	3	4	1	1	1	3	3	1	17	3.01	14
Samdrup Jongkhar	7	11	6	3	3	3	7	2	42	7.53	25
Samtse	9	15	2	1	4	2	4	3	40	7.53	32
Sarpang	6	8	5	0	5	3	1		28	5.27	19
Thimphu	1	1	3	3	0	4	2	1	15	2.64	10
Trashigang	8	10	2	4	7	7	2	1	41	7.72	30
Trashi Yangtse	3	6	4	3	3	3	7		29	5.46	25
Trongsa	4	6	3	4	1	2	2	1	23	4.33	17
Tsirang	5	4	1	2	2	1	1		16	3.01	13
Wangdue Phodrang	2	10	5	3	2	3	2		27	5.08	25
Zhemgang	1	5	4	4	5	6	4	3	32	6.03	27
Bhutan	79	130	54	61	65	65	67	15	536	100.00	416

Source: Rural Infrastructure Services Division, Department of Engineering Services, MoWHS, Thimphu.

Table 8.3: Number of Driving Licenses Issued by Region, Bhutan, (2011-2015)

Region	2011	2012	2013	2014	2015
Thimphu	39,194	43,789	46,588	49,159	52,134
Phuentsholing	8,113	9,084	9,902	10,689	11,676
Gelephu	8,020	9,607	11,002	12,225	13,351
Samdrup Jongkhar	6,478	7,632	8,496	9,048	9,492
Monggar	134	681
PDL (Professional Driving Licence)	11,006	13,455	15,022	15,404	16,424
Total	72,811	83,567	91,010	96,659	103,745

Note : The total driving license for the year 2015 was less with 13 because of cancellation at later

Source: Road Safety and Transport Authority, MOIC, Thimphu.

Table 8.4: Number of Passengers Carried & Revenue Earned by Druk Air Flights by Area of Operation, (2011-2015)

Area of Operation	2011	2012	2013	2014	2015
International	166,264	193,405	208,125	210,338	204,746
Paro to Kolkata	12,647	11,508	11,484	9,337	10,764
Kolkata to Paro	11,305	10,627	10,846	8,323	10,516
Paro to Bangkok	29,935	36,123	33,471	28,984	27,971
Bangkok to Paro	28,841	34,244	32,059	27,296	25,946
Paro to Dhaka	3,524	3,827	3,495	4,595	6,918
Dhaka to Paro	3,568	3,522	3,539	4,886	7,169
Paro to Delhi	16,273	18,431	18,667	18,280	22,713
Delhi to Paro	15,888	17,615	17,840	18,242	22,591
Paro to Kathmandu	13,377	16,273	18,721	21,515	11,792
Kathmandu to Paro	14,194	16,793	19,133	21,604	12,155
Kathmandu to Delhi	108	555	2,657	2,255	2,172
Delhi to Kathmandu	30	132	1,390	464	1,211
Kolkata to Bangkok	0	0	0	0	899
Bangkok to Kolkata	0	0	0	0	1,281
Dhaka to Bangkok	2,238	3,227	2,627	2,127	44
Bangkok to Dhaka	1,710	2,355	2,266	1,277	23
Gaya to Bangkok	202	658	551	701	468
Bangkok to Gaya	243	555	549	738	390
Paro to Gaya	1,180	558	507	992	987
Gaya to Paro	699	652	468	891	877
Paro to Bagdora	1,493	1,729	2,143	2,209	2,120
Bagdora to Paro	1,637	1,808	2,161	2,560	2,512
Bagdora to Bangkok	1,883	2,145	2,284	2,691	2,531
Bangkok to Bagdora	1,863	1,933	1,902	2,401	2,322
Paro to Guwahati	913	880	1,072	1,306	1,420
Guwahati to Paro	479	563	797	1,043	1,231
Guwahati to Bangkok	1,122	1,736	1,511	1,840	2,259
Bangkok to Guwahati	912	1,507	1,446	1,599	2,058
Paro to Singapore	0	1,409	3,831	3,915	4,268
Singapore to Paro	0	1,505	3,772	3,635	4,400
Kolkata to Singapore	0	190	3,213	3,877	4,231
Singapore to Kolkata	0	345	3,295	4,212	4,534

cont...

Table 8.4 cont...

Area of Operation	2011	2012	2013	2014	2015
Kolkata to Dhaka	0	0	183	0	-
Dhaka to Kolkata	0	0	245	0	-
Paro to Mumbai	3,187	2,040
Mumbai to Paro	3,356	1,933
Domestic	60	878	2,766	3,007	4,676
Paro to Bumthang	23	271	990	1,363	2,032
Bumthang to Paro	21	388	1,410	1,644	2,600
Paro to Gelephu	0	0	21	0	33
Gelephu to Paro	0	0	20	0	11
Paro to Younphula	6	120	175	0	-
Younphula to Paro	10	99	150	0	-
Total Passengers	166,324	194,283	210,891	213,345	209,422
Revenue (Nu.in millions)	2,021	2,488	2,976	2,837	2,698

Note : Revenue includes only total operating revenues.

Source: Druk Air Corporation Ltd., Thimphu.

Table 8.5: Number of Flights Made by Druk Air by International and Domestic by Area of Operation, (2011-2015)

Area of Operation	2011	2012	2013	2014	2015
International	3,810	4,382	4,683	4,997	5,238
Paro to Kolkata	269	285	279	271	298
Kolkata to Paro	234	276	277	267	320
Paro to Bangkok	406	476	446	479	403
Bangkok to Paro	406	478	448	439	402
Paro to Dhaka	131	149	132	144	190
Dhaka to Paro	122	146	126	130	191
Paro to Delhi	235	254	254	263	311
Delhi to Paro	233	243	253	231	315
Paro to Kathmandu	305	357	339	405	333
Kathmandu to Paro	300	357	336	370	333
Paro to Gaya	21	19	17	23	18
Gaya to Paro	20	19	18	24	16
Delhi to katmandu	38	23	84	117	122
kathmandu to Delhi	54	32	85	98	122
Bangkok to kolkata	0	0	0	0	98
Kolkata to Bangkok	1	1	0	0	78
Gaya to Bangkok	9	17	17	17	14
Bangkok to Gaya	8	17	17	17	12
Dhaka to Bangkok	109	129	96	99	7
Bangkok to Dhaka	99	127	96	85	7
Paro to Bagdora	107	111	135	149	144
Bagdora to Paro	102	111	133	130	112
Bagdora to Bangkok	102	104	125	146	144
Bangkok to Bagdora	100	104	126	139	112
Paro to Guwahati	103	105	94	106	107
Guwahati to Paro	104	103	96	105	99
Guwahati to Bangkok	104	105	95	104	108
Bangkok to Guwahati	88	103	96	105	101
Paro to Singapore	0	35	107	102	120
Singapore to Paro	0	35	107	100	121
Kolkata to Singapore	0	35	107	102	120
Singapore to Kolkata	0	26	102	100	121

cont...

Table 8.5 cont...

Area of Operation	2011	2012	2013	2014	2015
Kolkata to Dhaka	0	0	20	0	0
Dhaka to Kolkata	0	0	20	0	0
Paro to Mumbai	65	31
Mumbai to Paro	65	32
Kolkata to Bangkok	78
Bangkok to Kolkata	98
Domestic	8	148	284	263	295
Paro to Bumthang	3	56	118	132	142
Bumthang to Paro	3	56	118	131	144
Paro to Gelephu	0	0	1	0	3
Gelephu to Paro	0	0	1	0	3
Gelephu to Bumthang	3
Paro to Younphula	1	18	23	0	0
Younphula to Paro	1	18	23	0	0
All sectors	3,818	4,530	4,967	5,260	5,533

Note : Total number of flights includes both the Aircrafts AB 319 and ATR 42.

Source: Druk Air Corporation Ltd., Thimphu.

Table 8.6: Number of Passengers Carried & Revenue Earned by Tashi Air Flights by Area of Operation, (2013-2015)

Area of Operation	2013	2014	2015
Paro to Kolkata	154	5,326	8,839
Kolkata to Paro	88	5,010	7,499
Paro to Bangkok	1,704	16,722	16,226
Bangkok to Paro	1,654	17,110	15,670
Kolkata to Bangkok	1236	16,876	13,382
Bangkok to Kolkata	812	16,628	13,144
Paro to Kathmandu	...	4,378	5,781
Kathmandu to Paro	...	4,009	5,815
Paro to Delhi	1,422
Delhi to Paro	...	25	988
Total Passengers	5,648	86,084	88,766
Revenue (Nu.in millions)	51.71	864.13	1,039

Note : Revenue includes only total operating revenues.

Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.7: Number of Flights Made by Tashi Air by International and by Area of Operation, (2013-2015)

Area of Operation	2013	2014	2015
Paro to Kolkata	16	353	327
Kolkata to Paro	15	351	328
Paro to Bangkok	77	388	352
Bangkok to Paro	78	387	351
Kolkata to Bangkok	16	353	326
Bangkok to Kolkata	15	351	328
Paro to Kathmandu	...	110	128
Kathmandu to Paro	...	110	125
Delhi to Paro	...	1	21
Paro to Delhi	21
All sectors	217	2,404	2,307

Note: Flights includes Scheduled, Additional and Chartered Flights.

Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.8: Number of Telephone Connection Capacity by Dzongkhag, (2011-2015)

Dzongkhag	2011	2012	2013	2014	2015
Bumthang	755	734	712	662	612
Chhukha	3,997	3,797	3,662	2,763	2,706
Dagana	185	208	208	183	103
Gasa	17	32	50	45	42
Haa	385	400	403	356	326
Lhuentse	103	111	108	128	138
Monggar	854	868	793	705	671
Paro	1,835	1,921	1,910	1,768	1,560
Pema Gatshel	298	290	265	270	172
Punakha	594	619	650	552	442
Samdrup Jongkhar	1,197	1,251	1,112	1,063	946
Samtse	822	815	764	723	620
Sarpang	1,198	1,311	1,294	1,217	1,218
Thimphu	11,121	10,637	10,745	10,417	9,578
Trashigang	918	1,020	824	784	761
Trashigang	156	147	140	159	152
Trongsa	778	674	644	416	377
Tsirang	672	367	347	272	250
Wangdue Phodrang	1,092	1,355	1,501	1,057	799
Zhemgang	513	448	353	283	338
Bhutan	27,490	27,005	26,485	23,823	21,811

Source: Bhutan Infocom Media Authority, Thimphu.

cont...

Table 8.9: Number of Telephone Trunk Circuits, Bhutan, June 2016

Sector	Type of Connection	No. of Circuits
Thimphu Softswitch- USA (TELCO)	N°7	123
Thimphu Softswitch- Thimphu Bmobile	N°7	678
Thimphu Softswitch- Phuentsholing (NEC)	No trunk circuits	
Thimphu Softswitch- Samtse (NEC)	No trunk circuits	
Thimphu Softswitch- Wangdue (E10)	No trunk circuits	
Thimphu Softswitch- Singapore (SINGTEL)	N°7	26
Thimphu Softswitch- Thailand (CAT Telecom)	N°7	30
Thimphu Softswitch- Thimphu Tashicell (National trunk)	N°7	246
Thimphu Softswitch- Bangladesh (MIRT)	N°7	29
Thimphu Softswitch- Nepal (NTC)	N°7	31
Thimphu Softswitch- Samdrupjongkhar (Corvan)	No trunk circuits	
Thimphu Softswitch- London (British Telecom)	No trunk circuits	
Thimphu Softswitch- Thimphu Tashicell International	N°7	123
Thimphu Softswitch- India (BSNL Chennai)	N°7	122
Thimphu Softswitch- India (BSNL Delhi)	N°7	122
Thimphu Softswitch- India (Airtel Chennai)	N°7	91
Thimphu Softswitch- India (Airtel Delhi)	N°7	122
Thimphu Softswitch- India (RELIANCE)	N°7	61
Thimphu Softswitch-Thimphu Druk Air (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BPC (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BOB CC (PRA)	PRA link	30
Thimphu Softswitch-Thimphu NRDCL (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BT EPBAX (PRA)	PRA link	30
Thimphu Softswitch-Thimphu RBP (PRA)	PRA link	30
Thimphu Softswitch-Thimphu UNDP (PRA)	PRA link	30
Thimphu Softswitch-Thimphu LAND COMMISSION (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BHUTAN HOTEL (PRA)	PRA link	30
Thimphu Softswitch- Thimphu DCCL (PRA)	PRA link	30
Thimphu Softswitch- Thimphu MoH (PRA)	PRA link	30
Thimphu Softswitch- Thimphu BTL (PRA)	PRA link	30

cont...

Table 8.9 cont...

Thimphu Softswitch- Paro LE MERIDIEN(PRA)	PRA link	30
Thimphu Softswitch- Thimphu Bhutan Post (PRA)	PRA link	30
Thimphu Softswitch- Thimphu G2C (PRA)	PRA link	30
Thimphu Softswitch- Thimphu BoB (PRA)	PRA link	30
Thimphu Softswitch- Thimphu NPPF (PRA)	PRA link	30
Thimphu Softswitch- Japan (KDDi) (VoIP)	VoIP	120
Thimphu Softswitch- Japan (KDDi) (ONLY JAPAN) (VoIP)	VoIP	4
Thimphu Softswitch- CAT Telecom (VoIP)	VoIP	80
Thimphu Softswitch- USA (TELCO) (VoIP)	VoIP	60
Thimphu Softswitch- MIR Telecom (VoIP)	VoIP	60
Thimphu Softswitch- GET A CALL (VoIP)	VoIP	100
Trongsa - Zhemgang (corDECT)	No trunk circuits	
Trongsa - Zhemgang (corVAN)	No trunk circuits	
Trongsa - Phuntsholing (NEC)	No trunk circuits	
Phuentsholing - Samtse	No trunk circuits	
Total trunk lines (National, International and DAMA)		2,738

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.10: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers, (2011-2015)

Details	2011	2012	2013	2014	2015
Trunk lines	3,677	3,465	3,392	2,906	2,314
Satellite Communications	762	823	871	783	...
International Lines	762	823	871	783	...
Digital Microwave	2,250	2,250
Digital Radio Concentrator System
DRMASS	120
VOIP (International)	264	424
SDH	120,960
Connection capacity	51,428	49,826	48,534	48,534	44,192
Telephone sets in use	27,488	27,005	26,485	26,952	21,460
B-Mobile Subscribers	3,83,089	4,21,715	406,353	454,543	486,228
Internet (B-mobile)	...	109,526	197,458	250,907	337,969
3 G	...	18,686	112,119	181,585	337,969
GPRS/EDGE	...	90,840	85,339	69,322	...
Internet (Druknet)	13,311	16,893	20,630	25,204	28,037
Broadband	13,113	16,666	20,391	24,904	27,606
Leased Line	198	227	239	300	431

Note : a. Digital Radio Concentrator System, DRMASS, VOIP and SDH systems has been removed therefore no figures on these.

b. The source also cannot provide data on Digital Microwave due to system migration(SAP) at BTL.

c. Trunk lines are inclusive of international trunk lines

d. Earlier the Telecom use to have a parameter (REGSER-12) in MSC to segregate 3G users and 2G users but then it was removed from system by Ericsson. By default all b-mobile users are 3G although we have 2G user.

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.11: Number of Telephone Trunk Calls and Revenue Earnings, Bhutan, (2011-2015)

Type of Call	2011	2012	2013	2014	2015
Domestic calls	23,976,142	20,762,924	27,790,081	16,744,884	16,156,253
International calls	882,272	802,764	918,797	588,679	441,089
India	723,032	666,529	779,853	495,364	375,266
Other	159,240	136,235	138,944	93,315	65,823
All calls	24,858,414	21,565,688	28,708,878	17,333,563	16,597,342
Revenue earnings (Nu. In Million)	132	122	108	98	93

Note : Revenue Earnings are Revenue from Telephone Trunk Calls only

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.12: Number of B-Mobile Trunk Calls and Revenue Earnings, Bhutan, (2012 - 2015)

Type of Call	2012	2013	2014	2015
Total no. of subscribers	421,715	406,353	454,543	486,228
Domestic calls
International calls
India
Other
Mobile/GPRS subscribers	90,840	85,339	69,322	...
Mobile 3G	18,686	112,119	181,585	337,969
Revenue earnings (Nu.in Million)	2,209	2,328	2,305	2,691

Note : a. Since the Bhutan telecom Ltd. did not have data recording system, they have no data for the past years, will be available only by February 2014.

b. Revenue Earnings are revenue from three services (mobile, Internet and FL)

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.13: Number of Tashicell Trunk Calls and Revenue Earnings, Bhutan, (2011-2015)

Type of Call	2011	2012	2013	2014	2015
Total no. of subscribers	96,428	136,077	139,589	161,993	189,805
Domestic calls	383,117,819	55,516,712	65,016,115	19,307,646	74,013,660
International calls	5,051,474	7,096,986	8,186,128	6,805,167	6,004,497
India	4,546,327	6,742,137	7,776,822	6,540,465	5,800,733
Others	505,147	354,849	409,306	264,702	203,764
Mobile/GPRS subscribers	6,567	10,115	21,022	74,595	119,893
Revenue earnings (Nu. In Million)	400.01	422.24	482.70	750.70	918.47

Note : a. The figures mentioned here for the domestic and international calls are counts not minutes of calls.

b. And the figures includes both prepaid and postpaid calls made.

Source: Tashi Infocomm Ltd., Thimphu.

Table 8.14: Number of Postal Infrastructures, (2011-2015)

Postal Infrastructure	2011	2012	2013	2014	2015
General Post Offices	4	4	4	4	4
Post Offices	40	39	39	39	36
Community Mail Offices	30	41	41	41	35
Fax Offices	40	44	44	44	41
Total	114	128	128	128	116

Note : a. WT.Stations are merged with Telecommunication Division since July 1995, includes 3 stations installed at New Delhi, Dhaka and Kalingpong.

b. Fax Offices are Post Offices having facsimile services, they are not different establishment.

Source: Bhutan Postal Corp. Ltd., Thimphu.

Table 8.15: Volume of Mail, by Type of Article, (2011-2015)

Type of Service	2011	2012	2013	2014	2015
Domestic Mail					
Ordinary Mail	315,907	316,763	362,529	306,070	102,168
Registered	50,439	92,586	95,436	89,956	73,990
Parcel	1,615	1,869	1,668	1,033	680
Facsimile message	2,751	1,827	1,724	2,666	3,124
Newspapers	127,308	129,854	10,179	9,903	16,379
Local Urgent Mail (LUM)	159,674	197,445	176,278	145,787	145,684
Express mail service (EMS)	8,201	9,779	9,812	10,496	12,574
International Mail Dispatch					
Ordinary Mail	34,302	33,616	39,097	60,239	22,367
Registered	7,278	5,390	7,371	6,985	6,539
Parcel	191	238	69	56	168
FedEx	267	216	558	355	305
Facsimile message	343	109	164	183	108
Post Overnight Courier (POC)	3,156	5,736	2,816	2,786	884
Express mail service (EMS)	4,084	4,288	6,113	2,589	3,648
International Mail Receipt					
Ordinary Mail	228,708	224,133	283,732	246,223	170,436
Registered	8,651	8,408	6,773	8,040	13,289
Parcel	2,254	2,009	1,002	2,185	2,176
FedEx	1,306	2,316	1,635	1,101	1,492
Facsimile message	237	765	192	228	75
Post Overnight Courier (POC)	1,212	2,678	1,101	2,291	2,047
Express mail service (EMS)	7,520	8,534	5,033	6,087	7,564
Revenue Earnings (Nu. in million)	111.47	102.19	125.53	115.40	123.19
Total mail items	965,404	1,048,559	1,013,282	905,259	483,652

Source: Bhutan Postal Corp. Ltd, Thimphu.

Table 8.16: Financial Services, Number and Value of Money Order by Type, Bhutan, (2011-2015)

Type	2011	2012	2013	2014	2015
Total money orders					
Number of orders	94,604	46,873	50,757	33,906	21,609
Amount of orders	255,043,910	3,029,648	144,995,795	81,468,850	88,445,927
Domestic money order					
Number of orders	48,579	46,150	48,917	32,165	18,889
Amount of orders	131,688,271	125,103,857	131,017,148	65,421,740	53,303,329
International money order					
Dispatched					
Number of orders	707	721	614	1,740	2,720
Amount of orders	2,251,435	2,318,978	21,126,154	16,046,110	35,142,589
Receipts					
Number of orders	3	2	27	1	0
Amount of orders	8,500	1,475	237,000	1,000	0
Others					
Number of pensioners	1,229	1,438	1,632	1,723	1,833
Amount of pensioners	32,995,014	38,871,645	47,144,228	53,471,807	56,065,814
WUMT Receipts					
Numbers	13,450	16,295	22,189
Amount (USD)	6,800,000	7,516,253.49	9,943,621.00
WUMT Sent					
Numbers	1,433	1,310	1,389
Amount (USD)	300,000	420,030.38	568,883.43

Source: Bhutan Postal Corp. Ltd, Thimphu.

Table 8.17: Volume of Mail, by Type of Article, DHL, (2011-2015)

Type of Service	2011	2012	2013	2014	2015
Inbound					
Documents (DOX)	4,490	5,173	6,214	7,871	5,760
World wide Express (WPX)	932	1,028	1,716	3,511	2,592
Outbound					
Documents (DOX)	1,158	1,357	2,909	5,349	2,753
World wide Express (WPX)	671	823	539	4,613	426
Revenue Earnings (Nu. In million)	5.26	5.97	6.53	222.60	20.10
Total mail items	7,251	8,381	11,378	21,344	11,531

Source: DHL Courier Service, Thimphu.

Electricity is the main energy source of lighting in 88 percent of households in Bhutan as per the Bhutan Living Standard Survey (BLSS) 2012. It is also the most widely used sources of energy for cooking with 84 percent households. Electricity generation, though still relatively small in comparison with the rest of the world is growing in importance. Up until recently, electricity generation was based on small diesel generating and micro hydro stations, providing limited supply of electricity, which was supplemented by imports from India. The economy of the country is largely dependent on the development of Hydropower generations. Hydropower plants contribute significantly to the overall GDP Growth and economy, both during constructions and operation phases. With the commissioning of the first two units of Chhukha Hydro Projects in 1986, and the other two units in 1988 Bhutan substantially increased its electricity generation and became a significant exporter of electricity to India. The revenue earned from export of electricity is a significant contributor to the overall revenues of the kingdom.

The Chhukha Hydro power with the installed capacity of 336 MW, the Kurichu Hydro power with 60 MW and Basochu Hydro Power with 64 MW generated 1,867.36 MU, 379.02 MU and 312.76 MU respectively in 2015. With the commissioning of mega Tala Hydro Power Project with the installed capacity of 1,020 MW, there is a substantial increase in the energy generation of the country. During the year 2015, it has generated 4,821.75 Million Unit of electricity. In 2015, the total electricity generation was 7,731.14 Million Unit (MU). Domestic consumption of electricity has been marginal but should increase with the ongoing emphasis on Rural Electrification Programs. Other forms of energy such as the solar, wind and biomass energy are being explored.

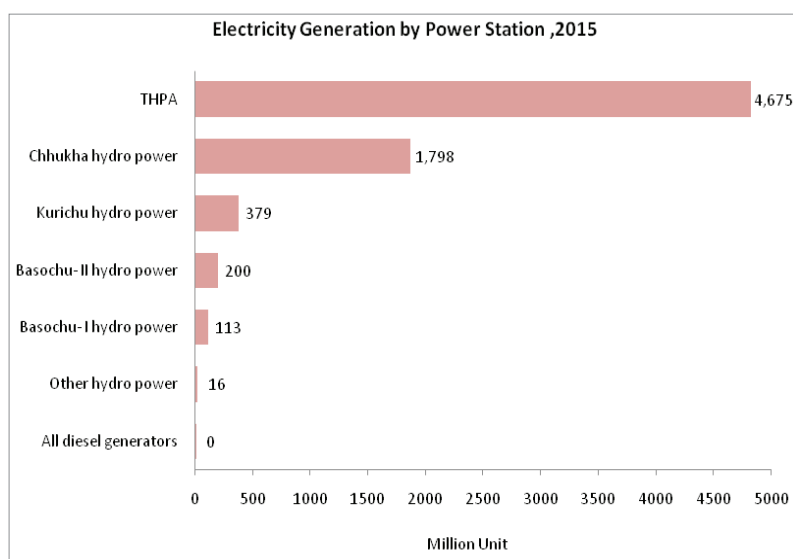


Table 9.1: Hydro Generating Stations and Their Capacities, Bhutan, (2013-2015)

Generating Stations	2013					Year of Commissioning	Installed Capacity	Generating Capacity
	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation				
	(No. x MW)	(MW)	(MW)	(GWh)	(No. x MW)			
Large Hydroelectric plants								
Chhukha	4 x 84.00	336.000	360.000	1907.444	1986-88	4 x 84.00	336.000	
Kurichu (Mongar)	4 x 15.00	60.000	64.240	378.603	2001	4 x 15.00	60.000	
Basochu..I (W/phodrang)	2 x 12.00	24.000	24.000	117.737	2002	2 x 12.00	24.000	
Basochu..II (W/phodrang)	2 x 20.00	40.000	40.000	212.648	2004	2 x 20.00	40.000	
Tala (Chukha)	6 x 170.00	1020.000	1122.000	4914.591	2006-07	6 x 170.00	1020.000	
Dagachu (Dagana)	
Total	1,480.00	1504.000		7531.023		1,480.00	1480.000	
Mini and Micro Hydels	(No. x KW)	(KW)	(MW)	(GWh)		(No. x KW)	(KW)	
Jushina (Thimphu)	4 x 90	270.000	0.255	1.213	1967	4 x 90	270.000	
Hesothangkha (Wangdue)	3 x 100	200.000	0.085	0.420	1972	3 x 100	200.000	
Chenari (Tashigang)	3 x 250	0.000	0.000	0.000	1972	3 x 250	0.000	
Gidakom (Thimphu)	5 x 250	816.000	0.965	4.529	1973	5 x 250	816.000	
Khalanzi (Mongar)	3 x 130	0.000	0.000	0.000	1976	3 x 130	0.000	
Chumey (Bumthang)	3 x 500	1000.000	0.890	2.251	1988	3 x 500	1000.000	
Gangzur (Lhuentse)	2 x 60	120.000	0.050	0.017	2000	2 x 60	120.000	
Rukubji (Wangdue)	1 x 40	40.000	0.013	0.081	1986-87	1 x 40	40.000	
Tangsibji (Trongsa)	1 x 30	30.000	0.017	0.049	1986-87	1 x 30	30.000	
Sherabling (Trongsa)	1 x 50	50.000	0.000	0.000	1986-87	1 x 50	50.000	

2014				2015				
	Peak Generation	Energy Generation	Year of Commissi-oning	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissi-oning
	(MW)	(GWh)		(No. x MW)	(MW)	(MW)	(GWh)	
	368.000	1797.828	1986-88	4X84.00	336.000	368.000	1,867.36	1986-88
	66.400	368.028	2001	4X15.00	60.000	66.400	379.02	2001
	24.000	109.252	2002	2X12.00	24.000	24.000	113.21	2002
	40.000	197.081	2004	2X20.00	40.000	40.000	199.55	2004
	1122.000	4675.032	2006-07	6X170.00	1020.000	1122.000	4,821.75	2006-07
	2X63.00	108.000	100.790	350.26	Feb-15
		7147.222		1606.000	1588.000	...	7,731.14	
	(MW)	(GWh)		(No. x kW)	(kW)	(MW)		
	...	0.929	1967	4x90	...	0.180	0.944	1967
	...	0.377	1972	3x100	...	0.070	0.377	1972
	...	0.000	1972	3x250	...	0.000	0.000	1972
	...	3.829	1973	5x250	...	0.630	4.919	1973
	...	0.000	1976	3x130	...	0.000	0.000	1976
	...	0.382	1988	3x500	...	0.000	0.000	1988
	...	0.021	2000	2x60	...	0.050	0.419	2000
	...	0.040	1986-87	1x40	...	-	0.555	1986-87
	...	0.019	-do-	1x30	...	0.000	0.291	-do-
	...	0.000	-do-	1x50	...	0.000	0.000	-do-

cont...

Table 9.1 cont...

Generating Stations	2013					Year of Commissioning	Installed Capacity	Generating Capacity	
	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation					
	(No. x MW)	(MW)	(MW)	(GWh)					
Bubja (Trongsa)	1 x 30	30.000	0.000	0.000	1986-87	1 x 30	30.000		
Tamzhing (Bumthang)	1 x 30	0.000	...	0.000	1986-87	1 x 30	0.000		
Ura (Bumthang)	1 x 50	50.000	...	0.070	1986-87	1 x 50	50.000		
Surey (Sarpang)	Dismantled	0.000	1986-87	Dismantled	0.000		
Kekhar (Zhemgang)	1 x 20	20.000	-do-	1 x 20	20.000		
Changchey (Tsirang)	2 x 100	200.000	0.036	0.095	1991	2 x 100	200.000		
Tingtibi (Zhemgang)	2 x 100	200.000	0.019	0.149	1992	2 x 100	200.000		
Darachhu (Dagana)	2 x 100	200.000	...	0.041	1992	2 x 100	200.000		
Lingzhi (Thimphu)	1 x 8	8.000	1999	1 x 8	8.000		
Rangjung (Tashigang)	2 x 1100	2200.000	1.743	9.108	1996	2 x 1100	2200.000		
Rongchu (Lhuentse)	2 x 100	200.000	0.150	0.340	2001	2 x 100	200.000		
Chendebji (Trongsa)	1 x 70	70.000	...	0.114	2005	1 x 70	70.000		
Sengor (Mongar)	1 x 100	100.000	2007	1 x 100	100.000		
Total	8,098	5804.000		18.477		8,098.000	5804.000		

Note : The generating capacity of power plants and their peak generation are not available, so the generating capacity and peak generation from last year (2011) where applicable has been used.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

2014				2015				
Peak Generation	Energy Generation	Year of Commissi-oning	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissi-oning	
(MW)	(GWh)		(No. x MW)	(MW)	(MW)	(GWh)		
...	0.000	-do-	1x30	...	0.000	0.000	-do-	
...	0.000	-do-	1x30	0.015	-do-	
...	0.059	-do-	1x50	0.159	-do-	
...	...	-do-	Dismantled	...	0.000	0.000	-do-	
...	...	-do-	1x20	0.000	-do-	
...	0.328	1991	2x100	...	0.060	0.050	1991	
...	0.625	1992	2x100	...	0.100	0.019	1992	
...	0.221	1992	2x100	...	0.125	0.303	1992	
...	...	1999	1x8	1999	
...	9.321	1996	2x1100	...	1.110	7.122	1996	
...	0.537	2001	2x100	...	0.047	0.657	2001	
...	0.136	2005	1x70	...	0.000	0.119	2005	
...	0.107	2007	1x100	0.064	2007	
	16.932		8098.000	...		16.014		

Table 9.2: Details of Diesel Generator Sets, Bhutan, 2015

Generating stations/ Locations	2015					Year of Commissioning
	No of Machines	No. & Capacity of Machines (No.XkVA)	Total Capacity (kVA)	Energy Generated (KWh)		
Thimphu		1X100	3,230.00	1978
		1X1250		1,570.78		1980
	6	1X1250		...		1982
		1X125		...		1984/85
		1X380		278.57		...
		1X125		...		1999-00
Chhukha	2	1X380	505.00	0.00		1966
Tsirang	1	1X380	380.00	0.00		1979
Trongsa	1	1X2500	250.00	0.00		1969
Sarpang		1X350	1,183.00	0.00		1976
	3	1X318		...		1991
		1X515		...		1991
Monggar	1	1x380	380.00	0.00		1999-00
Zhengang	1	1X380	380.00	0.00		1999-00
Dagana	1	1X380	380.00	0.00		1991
Samdrup Jongkhar	1	1X380	380.00	0.00		1999-00
Bumthang	3	1X380	1,140.00	0.00		1998
Trashigang Pema Gatsel		1X380		...		1999-00
		1X380		...		1999-00
	1	1X380	380.00	304.00		1999-00
	1	1X380	380.00	0.00		1999-00

cont...

Table 9.2 cont...

Generating stations/ Locations	2015				
	No of Machines	No. & Capacity of Machines (No.X kVA)	Total Capacity (kVA)	Energy Generated (KWh)	Year of Commissioning
Samtse	1	1X50	50.00	0.00	2000-01
Total			9,018.00	2,153.35	
Other Diesel sets					
Penden Cement Authority Ltd.	2	2X1000	2,000.00	...	1981/84
Bhutan Board Products Ltd.	2	1X160	160.00
Chukha Hydro Power Plant	4	1X349	349.00
		2X450	900.00
		2X280	560.00
Bhutan Ferro Alloys Ltd.	2	2X380	760.00	...	1995
Bhutan Carbide & Chemical Ltd.	3	3X125	375.00	...	1987
Basochu Hydro Power Plant	1	1X130	130.00	...	2000
Kurichu Hydro Power Plant	3	2X320	640.00	...	1998/00
Tala Hydro Power Plant	1	1X500	500.00	...	2007
S.D.Eastern Bhutan Ferro Silicon Pvt.Ltd.	2	1X2500	2,500.00	...	2006/07
		2X125	250.00	...	2007/08
Total			9,124.00

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.3 Major Transmission Lines, 2015

From Bus	To Bus	Number of Circuits	Line Length (Km)	Conductor Size
400kV Level			74.143	
Tala	Khogla	2	24.615	Twin moose
Tala	Malbase	2	49.528	Twin moose
220kV Level			401.982	
Basochhu	Tsirang	1	46.600	Single zebra
Tsirang	Jigmeling	1	30.565	Single zebra
Dagachu	Tsirang	1	20.202	Single zebra
Pelrithang(Lodra)	Jigmeling	1	10.420	Single zebra
Tsendengang	Dagapela (LILO)	1	4.396	Single Zebra
Basochhu	Semtokha	1	44.900	Single zebra
Semtokha	Chukha	1	54.010	Single zebra
Chukha-Gedu-	Indian Border	2	71.560	Double zebra
Chukha	Malbase	1	29.841	Single zebra
Malbase	Birpara	1	4.075	Single zebra
Malbase	Singhigaon	1	1.706	Single zebra
Malbase	Singhigoan	1	2.607	Single zebra
Malbase	Samtse	2	81.100	Double zebra
132kV Level			301.650	
Kurichhu	Kilikhar	1	10.064	Single panther
Kilikhar	Kanglung	1	29.705	Single panther
Kurichhu	Nangkor	1	31.080	Single panther
Nangkor	Deothang	1	23.310	Single panther
Deothang	Motanga	1	10.500	Single panther
Gelephug	Tintibi	1	45.740	Single panther
Gelephug	Indian Border	1	0.100	Single panther
Kilikhar	Tangmachhu	1	42.800	Single panther
Motanga	India border	1	1.500	Single panther
Nangkor	Nanglam	1	33.793	Single panther
Nanglam	Tintibi	1	83.330	Single panther
Tintibi	Yurmo	1	32.628	Single panther
66kV Level			306.490	

cont...

Table 9.3 cont..

From Bus	To Bus	Number of Circuits	Line Length (Km)	Conductor Size
Basochhu_upper	Basochhu_Lower	1	3.080	Single dog
Basochhu_Lower	Gewathang	1	1.500	Single dog
Gewathang	Loybesa	1	21.800	Single dog
Lobeysa	Semtokha	1	24.430	Single dog
Semtokha	Dechencholing	1	11.450	Single dog
Semtokha	Olakha	1	1.700	Single dog
Olakha	Jemina	1	17.660	Single dog
Jemina	Chumdo	1	11.780	Single dog
Chumdo	Paro	1	24.010	Single dog
Chumdo	Haa	1	33.400	Single dog
Chumdo	TAP1_66	1	15.100	Single dog
TAP1_66	Watsa	1	0.500	Single dog
TAP1_66	Chukha	1	21.880	Single dog
Chukha	Gedu	1	20.400	Single dog
Gedu	Pling	1	16.700	Single dog
Pling	Gomtu	1	26.900	Single dog
Malbase	Pling	1	8.986	Single dog (0.5Km from MAL Panther)
Malbase Multi-ckt.		4	3.405	
Samtse	Sibsoo	2	26.958	Double Dog
Samtse	Gomtu	2	14.851	Double Dog

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.4: Monthly Revenue From Sale of Energy from Chhukha Power Plant, (2012-2015)

(Nu. in Million)

Month	2012			2013			2014			2015		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	91.95	5.29	97.24	33.91	5.72	39.64	81.71	81.71	163.42	68.903	49.397	118.3
February	73.28	4.65	77.93	43.12	4.91	48.03	42.63	40.92	83.55	37.354	42.244	79.6
March	89.82	4.80	94.62	75.69	4.50	80.19	69.12	38.53	107.65	69.838	39.234	109.1
April	173.57	4.13	177.71	154.44	4.33	158.77	93.26	29.86	123.12	322.040	26.939	349.0
May	188.64	3.61	192.26	294.40	4.35	298.75	231.78	16.88	248.66	354.833	10.837	365.7
June	323.13	3.76	326.89	503.40	4.13	507.52	445.31	0.00	445.31	483.131	1.627	484.8
July	553.33	4.04	557.37	522.35	4.17	526.53	630.46	0.00	630.46	624.089	0.000	624.1
August	572.00	4.09	576.09	576.10	3.31	579.42	630.43	0.00	630.43	616.154	0.000	616.2
September	551.90	4.14	556.04	533.68	3.21	536.89	612.75	0.00	612.75	616.690	11.473	628.2
October	367.13	4.78	371.92	484.96	0.00	484.96	480.12	0.75	480.87	472.734	25.129	497.9
November	152.01	5.27	157.28	241.97	23.21	265.18	229.08	22.17	251.25	222.709	40.634	263.3
December	78.50	5.71	84.20	133.90	38.91	172.81	0.00	37.99	37.99	123.482	47.678	171.2
Total	3,215.28	54.27	3269.55	3,597.91	100.76	3698.67	3,546.63	268.81	3815.44	4011.96	295.19	4307.15

Note : Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.5: Monthly Revenue From Sale of Energy From Tala Power Plant, (2012-2015)

(Nu. in Million)

Month	2012			2013			2014			2015		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	79.46	13.74	93.20	35.63	14.04	49.67	76.97	112.58	189.55	33.86	141.10	174.96
February	41.13	12.93	54.06	22.06	12.81	34.87	26.27	107.63	133.90	23.01	108.01	131.03
March	62.18	13.71	75.88	38.34	14.78	53.12	39.32	117.71	157.03	39.72	122.89	162.61
April	236.86	11.87	248.72	209.44	13.45	222.89	42.43	126.99	169.42	146.51	94.33	240.85
May	248.77	12.66	261.43	505.25	14.00	519.25	324.96	102.86	427.82	497.32	84.66	581.98
June	603.94	11.82	615.76	1,076.00	13.24	1089.24	771.78	52.97	824.75	837.04	45.93	882.97
July	1,368.53	12.08	1380.60	1,420.89	13.59	1434.49	1,401.89	0.00	1401.89	1,341.20	0.00	1,341.20
August	1,434.27	12.24	1446.51	1,409.97	13.60	1423.57	1,417.43	0.00	1417.43	1,367.32	0.00	1,367.32
September	1,241.37	12.83	1254.20	1,015.07	13.38	1028.45	1,373.63	0.00	1373.63	1,305.72	0.00	1,305.72
October	590.78	14.22	605.00	879.15	22.11	901.26	710.27	55.94	766.21	650.75	64.86	715.61
November	219.85	13.52	233.37	350.73	85.87	436.61	249.81	114.41	364.22	241.47	100.20	341.67
December	97.81	14.27	112.08	149.58	116.47	266.05	102.21	142.10	244.31	93.16	129.79	222.95
Total	6224.95	155.87	6380.82	7112.11	347.34	7459.45	6536.96	933.18	7470.14	6,577.10	891.77	7,468.87

Note : Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.6: Monthly Revenue From Sale of Energy From Kurichu Power Plant, (2012-2015)

(Nu. in Million)

Month	2012			2013			2014			2015		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	0.00	17.42	17.42	0.00	25.06	25.06	0.00	40.16	40.16	0.00	43.83	43.83
February	0.00	15.44	15.44	0.00	17.99	17.99	0.00	38.48	38.48	0.00	37.92	37.92
March	0.00	18.88	18.88	0.00	24.83	24.83	0.00	39.28	39.28	0.00	42.48	42.48
April	15.46	16.71	32.18	3.89	20.11	24.00	0.00	31.34	31.34	0.00	32.13	32.13
May	32.91	17.22	50.13	44.00	14.39	58.39	19.78	29.23	49.01	30.27	26.62	56.89
June	49.82	16.07	65.89	51.21	15.16	66.37	33.55	26.53	60.07	36.81	26.45	63.26
July	51.60	15.96	67.56	60.37	12.83	73.20	44.70	24.90	69.60	37.23	18.48	55.71
August	51.56	16.80	68.36	56.49	15.46	71.94	41.86	27.40	69.26	33.75	27.08	60.83
September	37.38	14.64	52.02	55.27	16.04	71.31	41.30	26.14	67.44	33.59	11.03	44.62
October	39.89	16.34	56.24	44.96	19.49	64.46	20.37	30.93	51.31	19.60	13.45	33.05
November	6.56	18.49	25.05	13.59	21.62	35.21	0.00	32.86	32.86	0.00	28.49	28.49
December	0.00	22.87	22.87	0.00	27.94	27.94	0.00	43.60	43.60	0.00	42.85	42.85
Total	285.17	206.85	492.02	329.77	230.90	560.68	201.55	390.85	592.40	191.25	350.81	542.06

Note: Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.7: Monthly Revenue From Sale of Energy From Dagachu Power Plant from 2015

(Nu. in Million)

Month	2015		
	Export	Internal	Total
January	...	0.000	0.000
February	7.121	0.000	7.121
March	28.828	0.000	28.828
April	37.272	0.000	37.272
May	45.011	0.000	45.011
June	96.341	0.000	96.341
July	144.677	0.000	144.677
August	176.115	0.000	176.115
September	180.129	0.000	180.129
October	146.351	0.000	146.351
November	81.227	0.000	81.227
December	45.522	0.000	45.522
Total	988.594	0.000	988.594

Note : Internal refers to the sale of energy by BPC only.

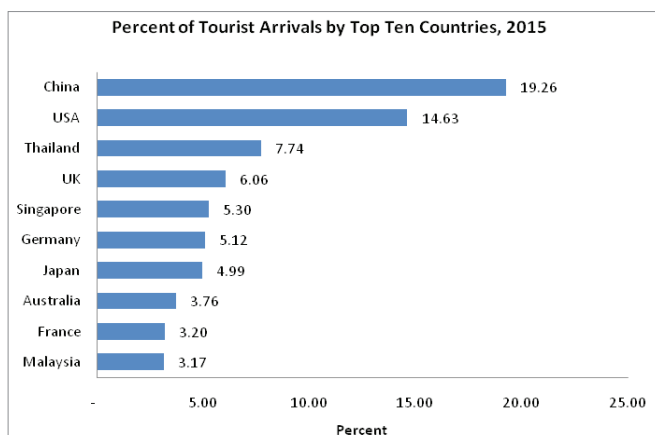
Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.8: Details of Domestic Electrical Energy Consumption, (2011-2015)

Details	2011	2012	2013	2014	2015
Towns electrified (numbers)	57	48	51	52	57
Villages electrified (numbers)	2,015	2,603	3,242	3,675	3,719
Total Consumers (numbers)	116,400	131,700	146,500	149,100	168,300
Sales of energy (Nu.in million)	2,830.0	3,096.9	3,346.6	3,959.8	4,576.3
Per capita energy consumption (kWh)	2,419.9	2,572.2	2,625.1	2,798.8	2,804.3

Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.

The tourism industry in Bhutan began in 1974. The government agency, erstwhile Bhutan Tourism Corporation, controlled tourism until its privatization in 1991. The revenue generation from the tourism sector has increased from over USD 2 million in the late 1980's to over USD 73 million in 2014. The tourism industry in Bhutan enjoyed continued growth rate with the tourist arrivals in the country rising steadily during the 1990s through 2000, while in 2001 there was a comparative decrease in tourist arrivals owing to terrorism and outbreak of SARS. However, the industry saw growing number of international tourist arrival thereafter. In 2008 tourist arrivals had grown significantly than the usual trends owing to the Coronation and the Centenary celebrations where Bhutan had unprecedented media coverage. Also the Smithsonian festival in 2008 also put Bhutan into the international limelight and must have contributed to the growth in numbers.



Bhutan remains a much admired destination throughout the global tourism industry, particularly in the high-end markets. This is attributed to the pristine state of the country's cultural and natural heritage, which attracts both an affluent and adventurous clientele, political stability and good governance, which ensures equitable and sustainable national development. In 2015,

Bhutan celebrated the 60th birth anniversary of His Majesty the Fourth Druk Gyalpo, the Jewel of Bhutan. To commemorate this special year, Bhutan declared 2015 as "Visit Bhutan Year" to allow visitors from all over the world to join in the celebrations of the Bhutanese for a much loved and revered monarch. The total visitor arrivals both international and regional continued to grow in 2015, registering a 16.21 percent increase to 155,121 arrivals. There is unequal distribution of tourist arrival in Bhutan in terms of time of their visit. Majority of tourist arrivals are in the month of October, May and December. Paro, Thimphu and Punakha received the largest number of tourist in 2015, also recorded maximum bed nights by Dzongkhag. "Culture and Nature" has always been the Unique Selling Proposition (USP) for the tourism industry of Bhutan.

Table 10.1: Annual International Tourist Arrivals by Country and Region, Bhutan, (2011-2015)

(Numbers)

Country	2011	2012	2013	2014	2015
Africa	92	93	92	161	117
Algeria	0	0	1	2	2
Angola	0	0	0	0	1
Benin	1	0	0	1	0
Botswana	0	0	0	0	1
Chad	3	2	0	2	1
Djibouti	0	0	0	1	0
Egypt	0	0	0	2	5
Ethiopia	0	0	1	0	0
Ghana	0	0	1	0	1
Ivory Coast	0	0	2	1	0
Kenya	6	2	5	7	10
Liberia	0	0	0	0	1
Madagascar	0	0	1	0	0
Mauritania	0	0	1	1	0
Mauritius	14	0	4	9	3
Morocco	0	1	1	2	2
Motswana	0	0	0	0	3
Mozambique	0	0	1	0	0
Namibia	1	5	6	6	6
Nigeria	3	4	2	5	7
Niger	0	0	0	5	0
Reunion	0	0	0	0	0
Senegal	0	0	0	1	0
Seychelles	0	1	1	0	0
Somalia	0	0	0	0	0
South Africa	62	77	59	109	70
Sudan	1	0	0	0	0
Swaziland	0	0	0	0	1
Tanzania	1	0	0	0	1
Tunisia	0	0	4	8	0
Uganda	0	0	1	0	1

cont...

Table 10.1 cont...

Country	2011	2012	2013	2014	2015
Zambia	0		0	0	0
Zimbabwe	0	0	1	0	1
Asia & Pacific	15,119	21,528	21,422	32,357	30,746
Afghanistan	0	2	0	0	0
Australia	1,773	1,926	2,043	2,037	1,833
Bangladesh	0	0	0	0	5851
Brunei Darussalam	3	1	8	7	3
Burma	0	12	0	11	6
Cambodia	0	3	3	1	6
China	2,896	3,766	4,764	8,111	9,399
Chinese – Macau	0	0	0	0	0
Fiji	0	0	6	0	1
Hongkong	0	0	0	0	0
India	0	0	0	0	0
Indonesia	295	202	579	619	333
Japan	3,943	6,967	4,015	2,707	2,437
Kazakhstan	15	3	0	4	7
Kyrgyzstan	1	1	1	7	0
Laos	4	2	11	0	6
Malaysia	788	1,307	2,029	2,067	1,546
Maldives	0	0	0	1	0
Mongolia	7	3	0	10	7
Myanmar	3	12	5	11	12
Nepal	145	150	168	203	192
New Zealand	144	192	211	193	218
North Korea	3	11	2	3	0
Pakistan	2	12	6	10	9
Philippines	128	243	238	206	234
Singapore	1,349	1,605	2,037	1,720	2,587
South Korea	407	630	596	858	640
Sri Lanka	6	17	15	27	18
Taiwan	891	801	1102	1268	1227
Thailand	2,235	3,573	3,494	12,105	3,778
Uzbekistan	0	2	0	0	1

cont...

Table 10.1 cont...

Country	2011	2012	2013	2014	2015
Vietnam	80	85	95	181	395
Europe	13,886	14,234	13,447	14,790	14,216
Albania	2	0	0	0	0
Andorra	1	6	2	1	3
Armenia	10	1	4	5	9
Austria	528	611	653	578	513
Azerbaijan	1	0	0	0	2
Belarus	1	11	12	2	8
Belgium	539	505	514	574	716
Bosnia	2	1	0	0	0
Bulgaria	11	14	24	68	26
Croatia	6	15	14	8	10
Cyprus	4	7	3	4	1
Czech Republic	135	148	160	195	157
Denmark	430	332	202	188	210
Estonia	2	12	16	23	32
Finland	245	112	144	120	195
France	1,585	1,847	1,561	1,636	1,563
Georgia	0	5	1	2	2
Germany	2,287	2,880	2,753	2,971	2,498
Gibraltar	0	0	0	0	0
Greece	70	60	48	57	24
Hungary	45	69	108	127	115
Iceland	7	5	1	5	5
Ireland	78	72	64	112	98
Italy	1,014	786	750	837	781
Latvia	44	32	17	10	16
Liechtenstein	3	5	3	2	12
Lithuania	44	3	18	37	43
Luxembourg	33	38	54	71	97
Macedonia	0	0	0	1	1
Malta	4	9	0	23	3
Moldova	0	2	0	1	0
Monaco	0	6	1	0	3

cont...

Table 10.1 cont...

Country	2011	2012	2013	2014	2015
Montenegro	1	1	0	0	0
Netherlands	933	993	785	863	709
Norway	214	142	219	245	185
Poland	311	240	289	289	284
Portugal	214	118	223	145	135
Russia	291	365	392	450	269
Romania	35	19	34	55	23
San Marino	0	0	0	0	2
Serbia	2	5	2	8	5
Slovakia	38	36	37	72	42
Slovenia	11	41	28	8	6
Spain	727	789	488	944	579
Sweden	256	241	267	284	386
Switzerland	781	932	1065	1298	1291
Turkey	66	208	167	259	155
Ukraine	81	44	33	32	44
United Kingdom	2,795	2,466	2,291	2,680	2,958
Yugoslavia	0	0	0	0	0
Middle East	326	209	195	283	180
Bahrain	1	0	3	1	0
Dubai	0	0	0	0	0
Iran	4	1	4	5	10
Israel	278	172	168	251	132
Jordan	21	3	4	0	4
Kuwait	8	8	0	8	6
Lebanon	4	5	6	10	9
Oman	2	5	1	1	0
Qatar	0	0	2	2	3
Saudi Arabia	2	12	6	2	4
Syrian Arab Republic	0	0	0	0	1
United Arab Emirates	5	3	1	2	11
Yemen	1	0	0	1	0
North America	7,511	7,199	8,219	8,829	8,558
Canada	1,061	999	1055	1297	1177

cont...

Table 10.1 cont...

Country	2011	2012	2013	2014	2015
Mexico	224	193	237	241	244
USA	6,226	6,007	6,927	7,291	7,137
South America	545	680	866	1,011	834
Antigua	1	0	0	0	0
Argentina	80	88	113	119	84
Bahamas	0	0	1	2	0
Bolivia	0	2	2	2	2
Brazil	304	462	556	583	538
Belize	1	0	0	1	2
Chile	45	40	89	157	78
Colombia	45	40	41	64	57
Costa Rica	1	5	2	5	5
Cuba	1	0	0	0	0
Dominica	0	2	5	4	0
Ecuador	0	4	5	1	6
El Salvador	2	0	1	3	0
Granada	1	0	0	0	0
Guatemala	11	0	10	12	7
Guyana	0	0	2	0	0
Haiti	1	0	0	0	0
Honduras	0	0	1	0	1
Jamaica	1	0	4	2	1
Nicaragua	0	0	1	3	1
Panama	2	8	3	1	5
Paraguay	0	0	0	3	1
Peru	12	6	6	22	14
Saint Kitts and Nevis	0	0	1	3	5
Surinam	0	0	1	0	0
Trinidad and Tobago	3	1	0	6	7
Uruguay	0	7	1	6	14
Venezuela	34	15	21	12	6
Virgin Islands U.S	0	0	0	0	0
Total arrivals	37,479	43,943	44,241	57,431	54,651

Note : From year 2011 to 2014, it was only the dollar paying tourist whereas for the year 2015 it includes the regional highend tourist also.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.2: Tourist Arrivals By Country of Residence and Revenue Receipts, Bhutan, (2011-2015)

(Numbers)

Region	2011	2012	2013	2014	2015
North America	7,511	7,199	8,219	8,829	8,558
South America	545	680	866	1,011	834
Asia and Pacific	15,119	21,528	21,422	32,357	30,746
Europe	13,886	14,234	13,447	14,790	14,216
Africa	92	93	92	161	117
Middle East	326	209	195	283	180
All regions (persons)	37,479	43,943	44,241	57,431	54,651
Tourism revenue receipts ¹					
Ngultrums (million)	2,226.66	3,355.40	3,483.06	4,392.00	4,557.15
Or					
US Dollars (million)	47.68	62.80	63.49	73.20	71.05

Note : ¹ The revenue receipts includes only for the International Tourist.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.3: Number of Tourist Arrivals by Season and Month, Bhutan, (2011-2015)

Season & Month	2011	2012	2013	2014	2015
Winter	22,802	22,351	24,371	27,891	38,647
November	9,497	9,380	10,759	10,752	15,338
December	8,878	6,953	9,540	12,051	16,882
January	4,427	6,018	4,072	5,088	6,427
Spring	23,065	25,966	28,121	25,703	37,798
February	5,156	5,286	5,753	5,123	7,659
March	8,611	8,772	10,687	7,528	14,004
April	9,298	11,908	11,681	13,052	16,135
Summer	24,747	26,777	26,859	31,912	43,293
May	11,325	12,736	12,647	13,931	21,313
June	8,280	8,936	9,230	10,142	13,668
July	5,142	5,105	4,982	7,839	8,312
Autumn	30,157	30,313	36,858	47,974	47,641
August	5,459	5,936	7,233	12,099	7,930
September	8,280	8,551	9,460	12,359	12,831
October	16,418	15,826	20,165	23,516	26,880

Note : The total number of tourist arrivals here shows dollar paying tourist, regional high end tourist, international business and regional business tourist.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2015

Purpose	%
Leisure	83.0
Official	7.0
Business	3.0
Others	7.0

Source: Tourism Council of Bhutan, Thimphu.

Table 10.5: Total Number of Tourist Arrivals by Dzongkhag, 2015

Dzongkhag	No. of visitors
Bumthang	12,856
Chhukha	3,846
Dagana	14
Gasa	543
Haa	3,518
Lhuntse	565
Monggar	2,763
Paro	48,584
Pema Gatshel	68
Punakha	38,083
Samdrup Jongkhar	2,164
Samtse	3
Sarpang	233
Thimphu	46,875
Trashigang	936
Trongsa	2,405
Tsirang	6,399
Tsirang	10
Wangdue Phodrang	15,911
Zhemgang	298

Source: Tourism Council of Bhutan, Thimphu.

Table 10.6: Top Ten Tour Operators by Number of Tourists, Bhutan, 2015

Tour Operator	Tourists
Norbu Bhutan Travel Private Limited	3,663
Hapiness Kingdom Travels	2,060
Luxury Division (BTCL)	1,285
Druk Aisa Tours and Treks	1,198
All Bhutan Connection private Ltd.	1,050
Bhutan Tourism Corporation Ltd.	1,045
Amen Bhutan Tours and Treks	945
Etho Metho Tours and Treks Ltd.	858
Druk Travel Service Private Ltd.	772
Dragon Quest Adventures	742

Source: Tourism Council of Bhutan, Thimphu.

Table 10.7: Top Ten Accommodation Providers by Bed Nights, 2015

Accommodation Providers	Bed Nights
Meri Phensum Resort – Punakha	12,948
Olathang Hotel – Paro	9,609
Tashi Namgay Resort - Paro	9,573
Dewachen - Wangdue Phodrang	8,593
Zhiwaling Hotel - Paro	8,336
Uma Resort – Paro	8,119
Tenzinling Resort - Paro	7,755
Metta Resort, Paro	6,705
Taj Tashi - Thimphu	5,826
Phuntsho Pelri Hotel - Thimphu	5,816

Source: Tourism Council of Bhutan, Thimphu.

Table 10.8: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2015

Dzongkhag	Bed Nights
Bumthang	32,813
Chhukha	3,988
Dagana	22
Gasa	3,627
Haa	4,512
Lhuntse	1,188
Monggar	4,280
Paro	112,171
Pema Gatshel	96
Punakha	53,503
Samdrup Jongkhar	2,377
Samtse	7
Sarpang	418
Thimphu	85,711
Trashi Yangtse	1,182
Trashigang	4,310
Trongsa	7,435
Tsirang	16
Wangdue Phodrang	22,983
Zhemgang	824

Source: Tourism Council of Bhutan, Thimphu.

Table 10.9: Percent of Top Ten Markets by Gender, Bhutan, 2015

Purpose	Sex	
	% Male	% Female
Chinese	16.0	22.0
American	16.0	14.0
Thai	7.0	8.0
British	7.0	5.0
German	6.0	5.0
Singaporean	4.0	6.0
Japanese	5.0	5.0
Australian	4.0	4.0
French	3.0	3.0
Malaysian	3.0	3.0

Source: Tourism Council of Bhutan, Thimphu.

The importance of foreign trade statistics is instrumental in gauging the overall economic performance in relation with other countries. Foreign Trade Statistics are vital to the policy maker, the economic planner and the public in general. The data related to merchandise is being compiled by the Department of Revenue and Customs, Ministry of Finance and the services by the Royal Monetary Authority of Bhutan (RMA).

Balance of Payments statistics are designed to show the difference between the total payments made to foreign countries and the total receipts from foreign countries. Thus, it provides systematic summary of economic transaction, for a specific time period, between an economy and the rest of the world. The transactions included goods, services, income, transfers and financial claims. Balance of payments statistics in Bhutan are compiled by the RMA based on information from its own accounts and those of the Banks, together with information on imports and exports.

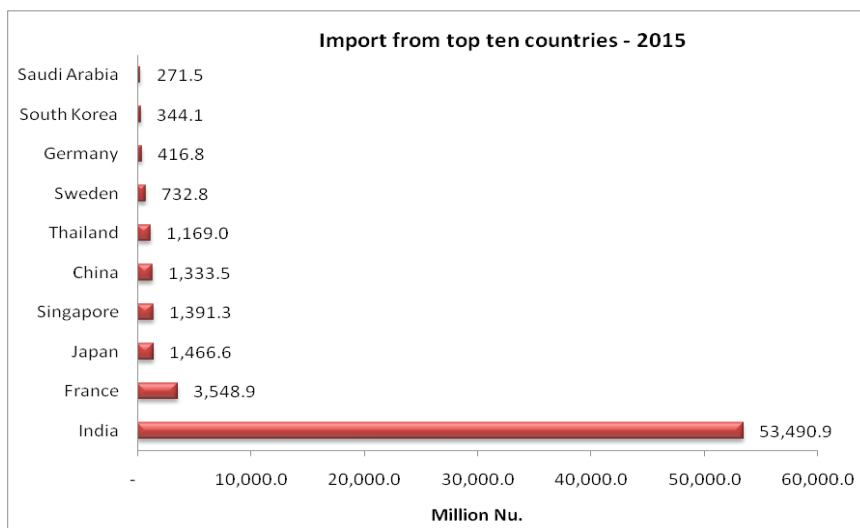


Table 11.1: Balance of Trade, Bhutan, (2011 - 2015)

(Nu. in Million)

Trade	2011	2012	2013	2014	2015
Exports	31,485.95	28,600.13	31,852.98	35,584.99	35,229.32
India	26,377.97	26,627.35	28,979.16	31,801.44	31,801.35
Third Countries	5,107.98	1,972.78	2,873.82	3,783.55	3,427.97
Imports	48,697.64	53,089.62	53,272.99	56,884.54	68,037.32
India	35,201.07	41,834.29	43,889.37	47,847.62	53,740.50
Third Countries	13,496.57	11,255.33	9,383.62	9,036.92	14,296.82
Balance of trade	(17,211.69)	(24,673.48)	(21,420.01)	(21,299.55)	(32,808.00)
India	(8,823.10)	(15,210.94)	(14,910.21)	(16,046.18)	(21,939.15)
Third Countries	(8,388.59)	(9,462.54)	(6,509.80)	(5,253.37)	(10,868.85)

Note : Figures within bracket indicate deficit (-).

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.2: Top Ten Commodities Export, Bhutan, 2015

Commodity Description	Value (Nu. in Million)	Percent share
Containing by weight more than 55% of silicon (Ferro Silicon)	6,935.24	30.02
Other, of rectangular other than square cross-section (Semi-finished products of Iron)	1,851.00	8.01
Portland Pozzolana Cement	1,637.21	7.09
Neither crushed nor ground (Cardamoms)	940.85	4.07
Of Calcium (Calcium Carbide)	926.42	4.01
Other, of free-cutting steel (Bars and rods of iron)	869.21	3.76
Silicon (Chemical elements)	815.18	3.53
Dolomite, not calcined or sintered, chips	693.16	3.00
Of silicon (Silicon Carbide)	686.20	2.97
Gypsum; anhydrite	646.48	2.80
Others	7,103.87	30.75
Total	23,104.82	100.00

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.3: Top Ten Commodities Import, Bhutan, 2015

Commodity	Value (Nu. in Million)	Percent share
Other light oils and preparations (Diesel)	5,262.71	7.76
Aeroplanes and other aircraft	3,484.14	5.14
Parts, including regulators (Hydraulic turbines and water wheels)	3,303.90	4.87
Ferrous products obtained by direct reduction of iron ore	2,550.08	3.76
Motor spirit including aviation spirit (Petrol)	1,692.97	2.50
Parts (electric motors, generator and rotary converters)	1,620.77	2.39
Towers and lattice masts (Structures and parts thereof)	1,483.22	2.19
Other (Wood Charcoal)	1,408.14	2.08
Semi-milled or wholly milled rice	1,126.42	1.66
Motor vehicle for transport of goods (g.v.w. not exceeding 5 tonnes)	1,096.88	1.62
Others	44,758.46	66.03
Total	67,787.67	100.00

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.4: Country wise Import in Ranking Order, 2015

SI. No.	Country Name	Value (Nu. in million)	SI. No.	Country Name	Value (Nu. in million)
1	India	53,490.85	25	Nepal	94.85
2	France	3,548.88	26	Denmark	88.71
3	Japan	1,466.62	27	Switzerland	72.78
4	Singapore	1,391.27	28	Russian Federation	44.61
5	China	1,333.48	29	Belgium	41.69
6	Thailand	1,168.95	30	New Zealand	38.18
7	Sweden	732.84	31	Netherlands	29.65
8	Germany	416.77	32	Turkey	28.12
9	South Korea	344.14	33	Austria	19.79
10	Saudi Arabia	271.55	34	Cyprus	18.20
11	Australia	271.03	35	Norway	14.13
12	Egypt	251.58	36	Taiwan	12.84
13	Israel	199.82	37	Poland	12.34
14	Malaysia	192.41	38	South Africa	12.11
15	United States of America	176.78	39	Spain	10.04
16	United Kingdom	172.95	40	Canada	6.91
17	Bangladesh	169.66	41	Slovakia	4.82
18	United Arab Emirates	161.15	42	Ireland	4.79
19	Qatar	136.88	43	Mexico	3.97
20	Hong Kong	133.73	44	Philippines	2.69
21	Finland	122.64	45	Sri Lanka	2.67
22	Indonesia	119.88	46	Czechoslovakia	2.24
23	Italy	111.37		Others	737.68
24	Viet Nam	98.60		Total	67,787.67

Note: Import Value which is less than or equal to Nu. 2,000,000.00 is clubbed as "others" for computation of import ranking order.

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.5: Country wise Export in Ranking Order, 2015

Sl. No.	Country Name	Value (Nu. in Million)
1	India	19,676.86
2	Bangladesh	1,817.47
3	Netherlands	434.09
4	United States of America	292.88
5	Germany	186.17
6	Singapore	169.82
7	Italy	152.18
8	Hong Kong	110.09
9	Nepal	80.69
10	France	70.46
11	Thailand	23.06
12	Japan	16.76
13	United Arab Emirates	15.59
14	United Kingdom	12.84
15	Malaysia	10.98
16	Switzerland	10.73
17	Spain	7.63
18	Taiwan	7.17
19	Viet Nam	4.14
20	China	1.92
	Others	0.78
Total		23,104.82

Note: Export value which is less than or equal to Nu. 1,000,000.00 is clubbed as "others" for computation of import ranking order.

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.6: Overall Balance of Payments Estimates, Bhutan, FY 2010/11 To 2014/15

(Nu. in Million)

Item	2010/11 (r)	2011/12 (p)	2012/13	2013/14	2014/15
A. Current Account	(23,621.43)	(19,774.27)	(7,256.39)	(28,831.39)	(36,084.75)
Exports cif	30,160.10	30,997.44	29,931.47	32,879.96	35,901.75
Imports, cif	(50,995.44)	(50,878.07)	(31,754.77)	55,306.91	61,923.39
Trade balance	(20,835.34)	(19,880.62)	(1,823.29)	(22,426.95)	(26,021.64)
Services	(4,283.13)	(4,749.95)	(2,900.22)	(5,380.01)	(3,701.04)
Credit	3,703.82	5,146.02	6,837.03	8,126.16	7,685.51
Debit	(7,986.95)	(9,895.97)	(9,737.25)	13,506.17	11,386.55
Primary Income	(4,709.69)	(5,922.37)	(9,248.56)	(7,127.62)	(11,341.65)
Credit	753.63	875.13	965.86	1,164.18	1,407.22
Debit	(5,463.31)	(6,797.51)	(10,214.42)	8,291.80	12,748.88
Secondary Income	6,206.72	10,778.68	6,715.68	6,103.19	4,979.58
Credit	8,562.24	12,907.31	8,684.69	7,333.20	6,874.16
Of Which, Budgetary Grants	6,540.05	9,020.72	4,716.15	3,856.53	4,785.01
Debit	(2,355.52)	(2,128.64)	(1,969.00)	1,230.01	1,894.57
B. Capital Account	7,609.68	4,755.13	14,458.99	16,901.74	13,981.04
o/w Budgetary Grants for Investment	3,957.68	3,436.53	4,698.63	7,541.54	4,408.03
C. Financial Account	(18,632.71)	(15,222.08)	(17,956.09)	(14,556.68)	(23,886.14)
Other Investment	17,076.30	13,948.99	17,723.73	13,771.56	(21,811.14)
o/w RGOB loans, net	11,974.74	11,435.14	18,447.09	18,993.61	24,217.70
o/w Other loans, net	4,618.73	2,950.76	201.42	(5,770.28)	(3,427.79)
C. Net Errors and Omissions	(1,823.42)	(9,271.37)	(15,946.53)	3,441.73	(2,342.84)
D. Overall balance	797.54	(9,068.42)	9,212.16	6,068.77	(560.41)

Note : a. Segregation of budgetary grants into Secondary Income and Capital Transfers carried out from FY 2006/07 onwards.

b. Net acquisition of financial assets minus net incurrence of financial liabilities; (+) figure denotes net lending and (-) figure denotes net borrowing; Excludes reserve assets.

c. Includes hydropower loans and accrued interest. Note on general sign convention: (+) = increase in assets or liabilities; (-) = decrease in assets or liabilities.

d. Launched for the first time in FY 2012/13, Bhutan's BOP statistics have been revised in line with IMF BPM6 methodology (from FY 2006/07 onwards), replacing BPMS methodology. Revisions were made under the IMF-JSA project to improve external sector statistics in the Asia-Pacific region and also includes other improvements in data coverage and classifications that were carried out in 2013. Please refer to Section I Economic Review 3. External Sector for details.

Source : Royal Monetary Authority of Bhutan, Thimphu

Table 11.7: Gross International Reserves (End Period), Bhutan, 2010/11 To 2014/15

(Nu. in Million)

Item	2010/11	2011/12	2012/13	2013/14	2014/15
1. Rupee reserves					
Royal Monetary Authority of Bhutan	774.60	1,516.27	11,352.24	10,133.27	10,865.88
Bank of Bhutan Ltd.	91.20	229.88	10,706.43	9,493.07	9,826.55
Bhutan National Bank Ltd.	329.40	857.25	229.83	447.91	598.04
TBank Ltd.	99.50	171.79	56.46	61.91	193.91
Druk PNB Ltd.	39.80	53.27	115.72	74.91	77.25
Bhutan Development Bank Ltd.	214.70	204.07	243.79	55.47	170.14

2. Convertible currency reserves (US \$)					
Royal Monetary Authority of Bhutan	778.86	647.37	726.71	829.26	788.02
Bank of Bhutan Ltd.	731.77	623.61	692.68	789.15	759.44
Bhutan National Bank Ltd.	35.14	8.95	21.58	22.71	20.26
TBank Ltd.	9.99	14.17	10.61	14.80	6.94
Druk PNB Ltd.	0.21	0.11	0.12	0.13	0.11
Bhutan Development Bank Ltd.	1.75	0.52	1.72	2.48	1.26

3. Total reserves (1+2) (US \$)	796.18	674.29	916.86	997.89	958.45
4. Months of Merchandise Imports					
Total reserves	8.38	8.96	20.68	13.01	11.84
Rupee reserves	0.23	0.45	5.21	2.56	2.56
Convertible currency reserves	40.29	41.52	92.77	76.77	54.76

Note : Convertible currency reserves of RMA have been revised in 2013 to exclude the US dollar pledge on any outstanding overdraft as of each reference period. Reserves also exclude (from July 2007 onwards) the local currency component of Bhutan's IMF Quota and the Kuwait-fund investment. (2)
Data for 2012/13 are based on provisional import figures for 2012/13 and are subject to change.

Source: Royal Monetary Authority, Thimphu

Table 11.8: Monthly Average Exchange Rates, Ngultrum Per US \$, (2011 - 2015)

Month	2011	2012	2013	2014	2015
January	45.40	51.35	54.31	62.08	62.14
February	45.40	49.16	53.75	62.25	62.03
March	45.00	50.32	54.39	61.01	62.45
April	44.40	51.80	54.38	60.36	62.75
May	44.90	54.44	55.03	59.31	63.81
June	44.90	56.03	58.33	59.73	63.86
July	44.40	55.53	59.78	60.06	63.65
August	45.30	55.56	63.21	60.90	65.07
September	47.60	54.56	63.64	60.88	66.19
October	49.30	53.02	61.63	61.35	65.08
November	50.80	54.78	62.71	61.68	66.05
December	52.70	54.65	61.95	62.71	66.60
Calendar year average exchange rate	46.70	53.43	58.59	61.47	64.14
Fiscal year	2010/11	2011/12	2012/13	2013/14	2014/15
Fiscal year average exchange Rate	45.30	50.27	54.86	61.47	62.05

Source: Royal Monetary Authority, Thimphu.

The sound growth of financial institutions plays pivotal role in developing countries in pursuit of economic growth responding to monetary problems to the government's task of nation building. The financial sector in Bhutan comprises of Royal Monetary Authority (RMA - Bhutan's Central Bank); the Bank of Bhutan Limited, Bhutan National Bank Limited and two private banks: Druk Punjab Bank Limited and Tashi Bank Limited both established in 2010. The non-bank financial institutions are the Royal Insurance Corporation of Bhutan, Bhutan Development Bank Limited and National Pension and Provident Fund.

The RMA has developed a comprehensive statistical system for the money, banking and finance sector. The main element of the system is the monetary survey, which is a consolidation of the accounts of the RMA and other Banks and financial institutions showing the financial relationship between these institutions and other sectors of the economy. In addition, financial statements are also available for the two non-bank financial institutions.

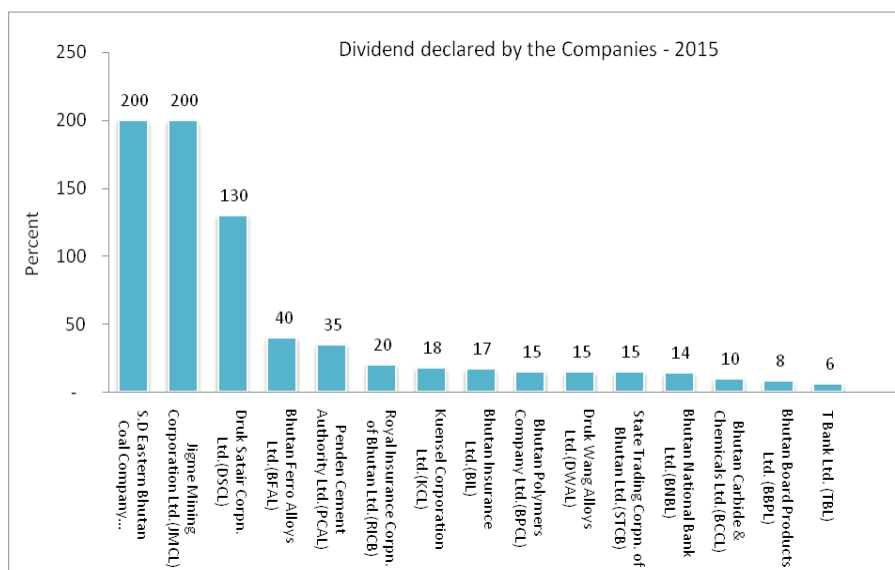


Table 12.1: Monetary Survey: Royal Monetary Authority, Bhutan National Bank, Bank Of Bhutan, Bhutan Development Bank, Druk PNB Bank and T Bank (2011-2015)

Item	2011	2012	2013	2014	2015
Assets total	79,600.87	87,180.89	99,352.28	120,531.16	125,501.60
Foreign Assets(net)	39,290.67	36,209.35	51,342.67	69,081.59	66,305.10
Rupee	(1,902.26)	(14,920.23)	(3,757.20)	11,034.15	7,324.01
Others	41,192.92	51,129.58	55,099.87	58,047.44	58,981.09
Domestic Credit	40,310.21	50,971.54	48,009.60	51,449.57	59,196.50
Claims on Government (net)	(1,198.89)	4,167.37	(2,388.52)	(5,013.40)	(6,123.14)
Claims on Other Public Sector ¹	1,246.64	1,645.36	1,646.34	3,112.88	5,340.60
Claims on private sector ²	40,262.46	45,158.81	48,751.77	53,350.09	59,979.03
Liabilities total	79,600.87	87,180.89	99,352.28	120,531.16	125,501.60
Broad money (M2)	53,228.61	56,222.88	58,209.85	73,366.10	76,148.61
Narrow Money (M1)	33,199.58	33,229.66	34,077.92	43,296.20	44,428.81
Nu. Outside Banks	6,910.56	5,254.43	5,406.20	5,671.59	6,587.16
Transferable Deposits	26,289.03	27,975.23	28,671.71	37,624.61	37,841.65
Other Deposits ³	20,029.02	22,993.21	24,131.94	30,069.91	31,719.80
Other items(net)	26,372.27	30,958.01	41,142.42	47,165.05	49,352.99

Note : ¹ It includes claims on Government Corporations and Other Public Corporations

² It includes claims on Non-bank financial institutions (NBFIs)

³ Other Deposits includes time deposits plus foreign currency deposits

a. Starting from January 2003 onwards, a major reclassification has been carried out in the accounts of all the economic sectors. Data prior to 2003 cannot always be directly compared with the subsequent data, because of a break in continuity.

b. Broad money (M2)=M=Narrow Money+Other Deposits, Narrow Money (M1)=Nu. Outside banks+ Transferable Deposits+NBFIs Deposits;

Figures in the brackets () are negative

c. The terms Demand Deposits and Quasi Money are replaced by Transferable Deposits and Other Deposits as per the International Monetary Funds Monetary and Financial Statistics Manual, 2000

Source : Royal Monetary Authority of Bhutan, Thimphu.

Table 12.2: Monetary and Financial Statistics of Royal Insurance Corporation of Bhutan, (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	6,446.50	7,222.99	8,283.38	10,885.42	13,805.95
Reserves	223.10	306.86	232.31	880.26	399.63
Foreign Assets	1.39	2.35	26.30	36.71	14.05
Rupee	0.00	0.04	0.04	34.00	11.21
Others	1.35	2.30	26.25	2.70	2.84
Domestic Credit ¹	5,423.90	5,690.66	6,631.65	9,968.46	13,392.27
Claims on Public Sector ²	14.00	13.98	13.48	38.98	38.98
Claims on private sector	5,406.90	5,673.68	6,582.67	8,283.53	11,860.06
Claims on NBFIs	3.00	3.00	35.50	42.83	65.10
Claims on DMBs	798.13	1,223.13	1,393.13	1,603.13	1,428.13
Liabilities total	6,446.55	7,222.99	8,283.43	10,885.42	13,805.95
Credit from DMBs	500.00	650.00	740.68	642.77	812.30
Credit from NBFIs	2,637.97	2,614.97	2,898.37	3,461.31	3,595.67
Capital accounts	1,210.52	1,507.06	1,764.56	1,991.01	2,479.25
Other items (net)	2,098.06	2,450.96	2,879.82	4,790.33	6,918.74

Note : ¹ Domestic credit excluding the claims on DMBs

² With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

DMBs = Deposit Money Banks, NBFIs = Non Bank Financial Institutions.

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.3: Monetary and Financial Statistics of Bhutan National Bank Limited, (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	22,551.65	25,489.90	24,085.96	26,818.79	28,786.35
Reserves with RMA	4,394.62	4,643.99	4,815.36	6,004.22	6,183.74
Foreign Assets	929.41	2,446.54	1,002.65	820.87	1,269.97
Rupee	130.57	134.41	206.43	482.06	384.62
Others	798.83	2,312.13	796.22	338.82	885.35
Domestic Credit	17,227.62	18,399.37	18,267.95	19,993.70	21,332.63
Claims on Government	527.00	527.00	105.37	997.78	...
Claims on Government Corps	0.37	115.33	115.33
Claims on Public Sector ¹	585.9	592.26	791.30	767.61	766.41
Claims on private sector	15,892.42	17,260.87	17,347.39	18,092.37	20,273.96
Claims on NBFIs	221.92	19.23	23.89	20.61	176.93
Liabilities total	22,551.65	25,489.90	24,085.96	26,818.79	28,786.35
Demand Deposits (Current and saving Deposits)	6,479.31	5,309.39	6,478.48	7,861.42	8,033.82
Time Deposits	11,240.27	11,715.85	9,424.53	10,327.59	10,810.99
Foreign currency Deposits	525.89	690.67	542.72	307.74	402.95
Capital accounts	4,077.96	6,087.99	6,264.77	7,129.63	7,655.63
Other items (net)	228.21	1,686.00	1,375.46	1,192.41	1,882.96

Note : ¹With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority Bhutan, Thimphu.

Table 12.4: Monetary and Financial Statistics of Bhutan Development Bank Limited, December (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	5,046.89	6,678.76	9,360.87	15,188.26	16,834.73
Reserves With RMA	489.34	409.13	841.24	3,802.29	2,189.65
Foreign Assets	...	14.81	11.84	14.84	23.67
Rupee	...	14.81	11.84	14.84	23.67
Others
Domestic Credit	4,557.55	6,254.82	8,507.80	11,371.13	14,621.42
Claims on Govt.
Claims on Govt. Corporations	6.20	213.01	...	455.54	504.49
Claims on Public Sector ¹	1.38	7.38	7.381	18.756	38.442
Claims on private sector	4,549.97	6,034.44	8,500.42	10,485.56	13,667.22
Claims on NBFIs	3.00	411.27	411.27
Liabilities total	5,046.89	6,678.76	9,360.87	15,188.26	16,834.73
Demand Deposits (Current and Saving Deposits)	692.81	945.58	1,687.71	2,288.25	2,591.33
Time Deposits	728.75	2,691.44	3,411.48	7,630.44	8,214.07
Foreign Currency Deposits
Foreign Liabilities ²
Domestic Borrowing	1,330.52	1,278.68	1,308.51	1,067.11	824.80
Capital accounts	1,555.90	1,816.14	2,199.31	2,846.24	3,378.26
Other items(net)	738.91	(53.08)	753.85	1,356.22	1,826.28

Note : ¹With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

² Due to changes in the classification of foreign liabilities, the external borrowing of the BDBL has been reclassified as the domestic borrowing as this borrowing was onlent by Government to the BDBL

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.5: Monetary and Financial Statistics of Royal Monetary Authority of Bhutan, (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	40,782.09	53,286.19	59,044.72	75,684.23	69,582.69
Foreign assets	40,047.41	47,910.87	57,928.18	75,502.07	68,810.31
Indian rupee	273.76	137.28	5,746.52	19,731.01	12,210.03
Convertible Foreign Currency (Including Gold)	39,773.65	47,773.60	52,181.66	55,771.06	56,600.28
Claims on deposit money banks	715.28	3,457.00	1,104.05	166.09	744.51
Claims on Government	...	1,900.00
Claims of private sector	19.39	17.42	12.49	16.06	27.88
Liabilities total	40,782.09	53,286.19	59,044.72	75,684.23	69,582.69
Reserve money	21,173.43	19,148.35	21,953.07	34,746.44	25,801.07
Currency outside banks	6,910.56	5,254.43	5,406.20	5,671.59	6,587.16
Foreign Liabilities	3,000.00	16,363.48	10,136.43	10,000.00	7,000.00
Rupee	3,000.00	16,363.48	10,136.43	10,000.00	7,000.00
Others
Government deposits	2,782.77	2,322.41	5,279.42	8,049.98	11,628.32
RMA Bills Outstanding	43.95	29.92
Capital Account	3,096.43	2,878.66	2,834.87	3,261.22	4,057.68
Other items (net)	10,685.50	12,543.37	18,840.92	19,626.59	21,095.63

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.6: Monetary and Financial Statistics: Bank of Bhutan Limited, (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	24,766.03	27,571.83	30,367.15	39,496.06	37,760.38
Reserve with RMA	7,824.08	8,237.79	10,335.45	17,658.54	13,283.35
Foreign assets	1,188.90	1,579.67	2,170.60	2,098.74	2,290.97
Rupee	589.56	614.20	330.85	488.09	933.92
Other	599.35	965.47	1,839.74	1,610.65	1,357.05
Claims on Government	558.74	970.78	105.37
Claims on Government corpns.	482.93	722.49	773.25	1,167.27	2,867.45
Claims on public sector ¹	144.67	82.22	52.49	375.56	569.40
Claims on private sector	14,265.01	15,450.42	16,310.82	17,624.68	18,349.94
Claims on NBFIs	301.69	528.45	619.18	571.27	399.27
Liabilities total	24,766.03	27,571.83	30,367.15	39,496.06	37,760.38
Demand deposit	16,635.65	17,776.49	17,453.85	23,364.32	22,189.24
Time deposit	3,363.21	3,971.76	6,666.38	7,778.64	8,307.75
Foreign currency deposits	1,016.48	657.72	542.40	676.30	832.60
Capital accounts	3,046.24	3,451.42	3,776.93	4,614.17	5,285.72
Other items (net)	704.45	1,714.43	1,927.60	3,062.63	1,145.07

Note : ¹With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.7: Monetary and Financial Statistics of T-Bank Ltd, December (2011- 2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	2,895.58	3,259.70	3,145.57	2,955.17	3,138.85
Reserve with RMA	588.12	889.21	879.06	424.32	574.23
Foreign assets	86.77	70.27	40.75	65.96	81.85
Rupee	84.08	65.03	32.61	42.07	53.96
Other	2.69	5.24	8.14	23.89	27.89
Domestic Credit	2,220.69	2,300.22	2,225.76	2,464.90	2,482.77
Claims on Government	40.00	40.00
Claims on Government Corps
Claims on Public Sector ¹	25.2	28.00	21.93	36.95	51.92
Claims on private sector	2,192.50	2,272.22	2,203.83	2,380.45	2,383.09
Claims on NBFIs	2.99	7.50	7.75
Liabilities Total	2,895.58	3,259.70	3,145.57	2,955.17	3,138.85
Demand deposit	450.07	766.75	516.22	925.30	857.25
Time deposit	1,318.88	1,533.23	1,231.79	1,265.62	1,258.85
Foreign currency deposits	13.09	8.20
Foreign liabilities
Rupee
Other
Government deposites
Capital accounts	274.35	356.90	396.28	565.76	586.23
Other items (net)	852.28	602.81	1,001.28	185.41	428.32

Note : ¹With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority, Thimphu.

Table 12.8: Monetary and Financial Statistics: Druk PNB Bank Ltd., December (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	4,548.70	5,534.94	5,638.96	6,545.14	7,070.08
Reserve with RMA	1,693.98	1,317.87	1,381.61	2,049.87	1,532.87
Foreign assets	38.17	550.66	325.10	579.10	828.33
Ruppee	19.77	477.53	50.99	276.08	717.80
Other	18.40	73.14	274.11	303.02	110.53
Domestic Credit	2,816.55	3,666.41	3,932.25	3,916.18	4,708.88
Claims on Government	0.0	90.64	198.50
Claims on Government corpns.	0.0	0.0	...	129.44	365.27
Claims on public sector ¹	0.0	0.0	...	46.42	61.90
Claims on private sector	2,781.42	3,389.41	3,547.03	3,639.35	4,248.03
Claims on NBFIs	35.13	186.35	186.72	100.96	33.68
Liabilities total	4,548.70	5,534.94	5,638.96	6,545.14	7,070.08
Demand deposit	2,031.18	3,177.03	2,535.45	3,185.32	4,170.00
Time deposit	1,817.42	1,731.74	2,063.35	1,843.01	1,864.73
Foreign currency deposits	18.12	0.80	249.29	227.48	19.66
Foreign liabilities	0.0	0.0
Ruppee	0.0	0.0
Other	0.0	0.0
Credit from RMA	0.0	0.0
Capital accounts	496.74	767.79	791.39	977.82	1,080.67
Other items (net)	185.25	(142.42)	(0.52)	311.51	(64.98)

Note : ¹ With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority, Thimphu.

Table 12.9: Monetary and Financial Statistics: Bhutan Insurance Limited, December (2011-2015)

(Nu. in Million)

Item	2011	2012	2013	2014	2015
Assets total	367.17	437.76	453.78	624.55	1040.65
Reserves	23.61	32.82	47.96	81.58	94.65
Foreign Assets
Rupee
Others
Domestic Credit	343.57	404.93	405.82	542.97	946.00
Claims on Govt. (Net)
Claims on Govt. Corps.
Claims on public sector ¹	1.75
Claims on private sector	303.57	364.93	374.82	412.56	798.84
Claims on NBFIs	0.00	0.00	0.00	...	60.00
Claims on DMBs	40.00	40.00	30.00	130.41	85.41
Liabilities total	367.17	437.76	453.78	624.55	1040.65
Life fund
Private provident funds
Group Insurance Fund
Credit from DMB	85.00	35.00	35.00	0.00	430.90
Credit from NBFIs	40.00
Capital accounts	127.34	264.08	272.94	417.37	493.70
Other items (net)	114.83	138.68	145.84	207.18	116.05

Note : ¹ With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

NBFIs stands for Non Bank Financial Institutions; DMBs Deposit Money Banks

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.10: Investments of Financial Institutions by Industry, Amounts Outstanding, (2011-2015)

(Nu. in Million)

Industry	2011	2012	2013	2014	2015
Agriculture	843.23	1,193.82	1,745.42	2,653.64	3,830.04
Bank of Bhutan Ltd	3.30	2.32	0.82	0.70	21.85
Royal Insurance Corporation of Bhutan Ltd
Bhutan Development Bank Ltd	838.43	1,189.90	1,741.83	2,650.19	3,803.80
Bhutan National Bank Ltd	0.71	0.71
Druk PNB Bank Ltd	1.50	1.60	1.32	0.60	0.62
T Bank Ltd	1.45	1.46	1.60
Bhutan Insurance Ltd	1.45
Service and Tourism	5,239.20	6,374.50	7,040.60	8,827.20	10,898.61
Bank of Bhutan Ltd	1,855.30	2,073.00	1,780.21	2,509.35	2,933.71
Royal Insurance Corporation of Bhutan Ltd	78.20	110.00	148.59	246.81	564.71
Bhutan Development Bank Ltd	1,011.10	1,289.00	1,708.62	1,965.69	2,333.81
Bhutan National Bank Ltd	1,842.80	2,199.50	2,588.65	2,992.78	3,490.14
Druk PNB Bank Ltd	329.00	509.10	574.80	806.99	1,177.08
T Bank Ltd	122.70	193.90	222.93	288.78	359.15
Bhutan Insurance Ltd	0.00	0.00	16.80	16.80	40.01
Manufacturing	7,165.30	7,819.55	9,974.40	10,236.36	10,153.10
Bank of Bhutan Ltd	2,360.80	2,790.40	3,022.83	3,397.09	3,509.01
Royal Insurance Corporation of Bhutan Ltd	611.70	626.10	760.56	1,111.76	1,398.45
Bhutan Development Bank Ltd	533.30	605.20	714.55	801.18	822.55
Bhutan National Bank Ltd	2,976.20	3,016.40	4,737.69	4,094.74	3,497.49
Druk PNB Bank Ltd	539.20	493.70	513.04	631.15	617.11
T Bank Ltd	110.00	243.60	201.73	177.08	230.54
Bhutan Insurance Ltd	34.10	44.15	24.00	23.37	77.94
Building and construction	12,104.60	14,475.42	15,506.11	16,414.67	18,288.51
Bank of Bhutan Ltd	3,593.80	4,824.40	5,288.66	5,435.02	5,372.66

cont...

Table 12.10 cont...

Industry	2011	2012	2013	2014	2015
Royal Insurance Corporation of Bhutan Ltd	1,801.60	1,935.80	2,001.21	2,285.16	2,613.40
Bhutan Development Bank Ltd	525.20	685.90	1,013.88	1,469.64	2,110.30
Bhutan National Bank Ltd	5,089.70	5,710.60	5,739.82	5,774.98	6,473.26
Druk PNB Bank Ltd	681.60	877.70	962.31	953.86	1,202.00
T Bank Ltd	409.10	434.60	492.80	475.12	449.66
Bhutan Insurance Ltd	3.70	6.42	7.43	20.89	67.23
Trade and commerce	4,765.90	4,379.50	7,301.22	9,892.56	14,289.43
Bank of Bhutan Ltd	1,430.10	973.70	1,057.31	1,229.54	1,594.45
Royal Insurance Corporation of Bhutan Ltd	1,427.80	1,553.30	1,855.23	2,661.65	4,761.67
Bhutan Development Bank Ltd	408.60	534.10	803.67	1,120.76	1,432.86
Bhutan National Bank Ltd	354.00	404.00	2,598.98	3,857.38	5,376.31
Druk PNB Bank Ltd	681.50	470.30	466.38	468.76	491.44
T Bank Ltd	413.70	406.20	454.58	460.97	503.38
Bhutan Insurance Ltd	50.10	37.90	65.07	93.49	129.33
Transport	4,732.60	4,356.56	3,246.90	2,390.10	3,216.45
Bank of Bhutan Ltd	1,114.30	1,190.50	883.87	610.91	586.19
Royal Insurance Corporation of Bhutan Ltd	952.00	773.57	575.47	401.03	726.03
Bhutan Development Bank Ltd	376.60	349.58	247.55	260.64	630.05
Bhutan National Bank Ltd	1,457.20	1,281.32	955.32	680.90	789.90
Druk PNB Bank Ltd	242.10	214.94	158.46	109.72	116.28
T Bank Ltd	421.10	378.01	287.30	209.82	151.83
Bhutan Insurance Ltd	169.30	168.64	138.93	117.09	216.18
Personal loans	8,055.44	8,995.36	10,406.62	11,499.28	11,648.06
Bank of Bhutan Ltd	4,812.77	5,090.82	5,397.28	5,594.84	5,394.17
Royal Insurance Corporation of Bhutan Ltd	19.07	600.28	1,159.18	1,465.09	1,407.72
Bhutan Development Bank Ltd	835.16	1,567.76	1,963.78	2,320.19	2,475.43
Bhutan National Bank Ltd	1,082.51	732.70	884.57	1,044.73	1,104.91

cont...

Table 12.10 cont...

Industry	2011	2012	2013	2014	2015
Druk PNB Bank Ltd	123.52	524.00	565.43	524.26	519.13
T Bank Ltd	714.83	406.88	371.47	479.70	551.69
Bhutan Insurance Ltd	467.58	72.92	64.91	70.47	195.01
Loan Against Shares	490.80	569.43	577.40	702.59	661.69
Bank of Bhutan Ltd	159.50	144.16	130.47	181.41	179.92
Royal Insurance Corporation of Bhutan Ltd	25.50	28.65	41.13	68.56	88.67
Bhutan Development Bank Ltd
Bhutan National Bank Ltd	104.40	97.80	85.29	110.49	83.43
Druk PNB Bank Ltd	174.20	274.85	278.93	287.78	264.64
T Bank Ltd	19.40	16.37	12.90	12.43	9.53
Bhutan Insurance Ltd	7.80	7.60	28.68	41.92	35.50
Others	4,115.69	5,276.10	1,661.86	1,365.63	1,791.73
Bank of Bhutan Ltd	323.36	355.61	340.43	312.00	320.90
Royal Insurance Corporation of Bhutan Ltd	19.54	21.25	15.96	19.15	359.37
Bhutan Development Bank Ltd	24.79	26.00	306.54	352.81	562.64
Bhutan National Bank Ltd	3,678.07	4,417.69	576.17	211.89	260.92
Druk PNB Bank Ltd	44.87	209.51	213.10	133.95	71.18
T Bank Ltd	6.82	218.71	180.60	307.29	180.53
Bhutan Insurance Ltd	18.25	27.33	29.06	28.53	36.20
Total	47,512.70	53,440.24	57,460.53	63,982.05	74,777.63

Note : Loan availed by Ministry of Finance has been reported under Service and Tourism in case of BoB
Manufacturing and Industry in case of BNB.

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.11: Interest Rates of Deposits In Financial Institutions, (2011 to 2015)

(in percent)

Type of Deposit	2011	2012	2013	2014	2015
Savings	4.50	5.00	5.00	5.00	5.00
Fixed Deposit					
i) 3 months to less than 1 year	4.50	5.00	5.00	5.00	5.00
ii) 1 year to less than 2 years	6.00	7.00	7.00	7.00	6.75
iii) 2 years to less than 3 years	6.00	7.50	7.50	7.50	7.25
iv) 3 years less than 5 years	7.00	8.00	8.00	8.00	7.75
v) 5 years less than 7 years	7.00	8.50	8.50	8.50	8.50
vi) 7 years and above	7.00	8.80	8.80	8.80	8.75
For Institutions & Companies					
i) 91 days to less than 1 year	2.00	6.50	6.50	6.50	...
ii) 1 year to less than 2 years	...	7.00	7.00	7.00	7.00
iii) 2 years to less than 3 years	...	7.50	7.50	7.50	7.50
iv) 3 years to less than 5 years	...	8.00	8.00	8.00	8.00
v) 5 years to less than 7 years	...	8.50	8.50	8.50	8.25
vi) 7 years to less than 10 years	...	8.50	8.50	8.50	8.50
vii) 10 years to less than 12 years	...	8.50	8.50	8.50	8.75
viii) 12 years and above	...	8.50	8.50	8.50	9.00

Source: Bank of Bhutan, Thimphu

cont...

Table 12.12: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2013-2014)

Sector	2013		2014		2015	
	Interest rate (% p.a.)	Repayment period (yrs.)	Interest rate (% p.a.)	Repayment period (yrs.)	Interest Rate (% p.a.)	Repayment Period (Yrs)
Export Finance						
Convertible Currency (Upto 60 days of credit)	14.0	1 yr. subject to review renewal	14.0	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal
Convertible Currency (More than 60 days of credit)	14.0	1 yr. subject to review renewal	14.0	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal
General Trade	14.0	1 yr. subject to review renewal	14.0	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal
Buses and trucks						
Term Loan	11.73-12.33	1-7 years	11.73-12.33	1-7 years	11.73-12.15	1-5 Years
Working Capital	13.75	1 yr. subject to review renewal
Other Passenger vehicles	11.73-12.33	1-7 years	11.73-12.33	1-7 years	11.73-12.15	1-5 years
Agriculture and livestock	11.73-12.23	1-6 years	11.73-12.23	1-6 years	11.73-12.15	1-5 years
Manufacturing Industry						
Term Loan	11.73-13.13	1-15 years	11.73-13.13	1-15 years	11.73-13	1-15 years
Working Capital	14	1 yr. subject to review renewal	14	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal

cont...

Table 12.12 cont...

Sector	2013		2014		2015	
	Interest rate (% p.a)	Repayment period (yrs.)	Interest rate (% p.a)	Repayment period (yrs.)	Interest Rate (% p.a)	Repayment Period (Yrs)
Service Industries						
Term Loan	11.73-13.13	1-15 years 1 yr. subject to review renewal	11.73-13.13	1-15 years 1 yr. subject to review renewal	11.73-12.75	1-15 Years
Working Capital	14		14		13.75	1 yr. subject to review renewal
Personal Loans	15	1 year	15	1 year	15	1 year
Equity finance	11.73-12.23	1-6 years	11.73-12.23	1-6 years	11.73-12.23	1-6 years
Housing (commercial)						
New Construction	12.73-14.63	1-20 years	12.73-14.63	1-20 years	12.73-13.25	1-20 years
Repair/Renovation	12.73-13.63	1-10 years	12.73-13.63	1-10 years	12.73-13.25	1-20 years
Purchase	12.73-13.13	1-15 years	12.73-13.13	1-15 years	12.73-13.25	1-20 years
Consumer Loans	12.73-13.33	1-7 years	12.73-13.33	1-7 years	12.35-12.75	1-5 Years
Housing (residential)						
New Construction	12.48-13	1-20 years
Repair/Renovation	12.48-13	1-20 years
Purchase	12.48-13	1-20 years
Consumer Loans	12.48-13	1-20 years

Source: Bank of Bhutan, Thimphu

Table 12.13: Royal Securities Exchange of Bhutan Ltd. Number of Share Holders at The End Of December, (2011 - 2015)

(In Numbers)

Company	2011	2012	2013	2014	2015
Bhutan Board Products Ltd. (BBPL)	494	487	487	480	479
Bhutan Carbide & Chemical Ltd. (BCCL)	258	259	259	259	260
Bhutan Ferro Alloys Ltd. (BFAL)	43	43	43	43	43
Bhutan Insurance Ltd. (BIL)	4,310	4,445	4,395	4,370	4,318
Bhutan National Bank Ltd. (BNBL)	4,415	4,523	4,519	4,521	4,514
Bhutan Polymers Company Ltd. (BPCL)	128	128	128	127	128
Bhutan Times Ltd. (BTL) ¹	289	288	288
Bhutan Tourism Corpn. Ltd (BTCL)	158	157	156	155	156
Druk Ferro Alloys Ltd. (DFAL)	467	460	459	457	459
Dungsam Polymers Ltd. (DPL) ²	14,833	14,487	14,416
Druk plaster & Chemicals Ltd. (DPOP)	214	214	214	214	214
Druk PNB Bank (DPNB)	22,540	22,564	22,378	22,253	22,143
T Bank Ltd. (TBL)	8,066	7,909	7,955	7,864	7,756
Druk Satair Corporation Ltd. (DSCL)	1,276	1,272	1,267	1,266	1,265
Druk Wang Alloys Ltd. (DWAL)	498	498	496	494	494
Jigme Mining Corporation Ltd. (JMCL)	415	416	418	420	416
Kuensel Corporation Ltd. (KCL)	232	232	233	233	232
Penden Cement Authority Ltd. (PCAL)	1,456	1,449	1,447	1,425	1,417
Royal Insurance Corpn. of Bhutan (RICB)	1,536	1,524	1,506	1,494	1,493
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	1,075	1,074	1,069	1,062	1,059
State Trading Corpn. of Bhutan Ltd. (STCB)	135	135	137	137	136
GIC-Bhutan Re-Limited (GBRL) ³	1,230	1,157
TOTAL	48,005	48,077	62,687	62,991	62,555

Note: ¹ Delisted in November 2014,

² Listed on August 2013, &

³ Listed on August 2014

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Table 12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at The End Of December, 2015

Company	Paid-Up Shares	Price per share (Nu)	Market capitalization (Nu)
Bhutan Board Products Ltd. (BBPL)	14,000,140	10.0	140.00
Bhutan Carbide & Chemical Ltd. (BCCL)	10,000,000	75.0	750.00
Bhutan Ferro Alloys Ltd. (BFAL)	15,000,000	60.0	900.00
Bhutan Insurance Ltd. (BIL)	20,000,000	22.0	440.00
Bhutan National Bank Ltd. (BNBL)	354,807,700	29.0	10,289.42
Bhutan Polymers Company Ltd. (BPCL)	2,493,340	10.0	24.93
Bhutan Tourism Corpn. Ltd (BTCL)	2,094,000	40.0	83.76
Druk Ferro Alloys Ltd. (DFAL)	28,997,620	24.0	695.46
Dungsam Polymers Ltd. (DPL)	8,272,350	19.0	157.17
Druk plaster & Chemicals Ltd. (DPOP)	1,000,000	20.0	20.00
Druk PNB Bank (DPNB)	45,000,000	20.5	922.50
T Bank Ltd. (TBL)	30,000,000	13.0	390.00
Druk Satair Corporation Ltd. (DSCL)	9,130,860	30.0	273.93
Druk Wang Alloys Ltd. (DWAL)	20,369,961	38.0	774.06
Jigme Mining Corporation Ltd. (JMCL)	5,687,630	71.0	403.82
Kuensel Corporation Ltd. (KCL)	5,000,000	12.0	60.00
Penden Cement Authority Ltd. (PCAL)	34,000,070	60.0	2,040.00
Royal Insurance Corpn. of Bhutan (RICB)	120,000,000	37.6	4,512.00
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	5,210,000	40.0	208.40
State Trading Corpn. of Bhutan Ltd. (STCB)	18,000,160	17.2	309.60
GIC-Bhutan Re-Limited (GBRL)	50,000,000	12.0	600.0
TOTAL	799,063,831		23,995.1

Source: Royal Securities Exchange of Bhutan Ltd. Thimphu.

Table 12.15: Royal Securities Exchange of Bhutan Ltd.Total Traded Volume at The End of December, (2011 to 2015)

(Numbers)

Company	2011	2012	2013	2014	2015
Bhutan Board Products Ltd. (BBPL)	10,100	...	1,000
Bhutan Carbide & Chemicals Ltd.(BCCL)	...	84	20	40	800
Bhutan Ferro Alloys Ltd.(BFAL)
Bhutan Insurance Ltd.(BIL)	19,981	1,024,815	171,831	359,709	715,020
Bhutan National Bank Ltd.(BNBL)	3,329,839	14,116,796	5,589,791	12,435,817	4,983,929
Bhutan Polymers Company Ltd.(BPCL)
Bhutan Tourism Corpn. Ltd(BTCL)	60	...	40	1,500	3,200
Druk Ferro Alloys Ltd.(DFAL)	2,650	50,150	4,050	899,350	11,500
Dungsam Polymers Ltd.(DPL)	858,983	32,743	32,360
Druk Plaster & Chemicals Ltd.(DPCL)
Druk PNB Bank Ltd.(DPNB)	27,950	1,504,829	37,561	66,908	105,254
T Bank Ltd. (TBL)	2,384,948	40,897	826,699	57,994	274,672
Druk Satair Corpn. Ltd.(DSCL)
Druk Wang Alloys Ltd.(DWAL)	970	650	1,175	11,325	1,033,836
Jigme Mining Corporation Ltd.(JMCL)	144,331	1,277	801	3,468	37,350
Kuensel Corporation Ltd.(KCL)	...	978	432	...	8,670
Penden Cement Authority Ltd.(PCAL)	5,490	1,440	3,585	386,482	310,940
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	4,450	5,160	3,250	2,506,765	72,334,495
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	486.0	1,261	1,000	4,950	9,000
State Trading Corpn. of Bhutan Ltd.(STCB)	200,003	300,005	900,448	...	85,500
GIC-Bhutan Re-Limited (GBRL)	50,384,350	340,450
TOTAL	6,121,158	17,048,342	8,409,766	67,151,401	80,287,976

Note: Total traded volume is inclusive of Initial Public Offering (IPO), Secondary trading and Corporate actions.

Source: Royal Securities Exchange of Bhutan Ltd. Thimphu

Table 12.16: Royal Securities Exchange of Bhutan Ltd. Traded Values, (2011 To 2015)

(In Million Nu.)

Company	Capital Market	2011	2012	2013	2014	2015
Bhutan Board Products Ltd. (BBPL)	Primary
	Secondary	1.01	...	0.01
Bhutan Carbide & Chemicals Ltd. (BCCL)	Primary
	Secondary	...	0.08	0.02	0.03	0.06
Bhutan Ferro-Alloys Ltd. (BFAL)	Primary
	Secondary
Bhutan National Bank Ltd. (BNBL)	Primary
	Secondary	60.97	181.13	165.38	89.84	134.26
Bhutan Polymers Company Ltd. (BPCL)	Primary
	Secondary
Bhutan Tourism Corpn. Ltd (BTCL)	Primary
	Secondary	0.02	...	0.02	0.06	0.13
Druk plaster & Chemicals Ltd. (DPOP)	Primary
	Secondary
Druk Satair Corpn. Ltd. (DSCL)	Primary
	Secondary
Druk PNB Bank Ltd. (DPNB)	Primary
	Secondary	9.67	5.03	11.78	1.80	1.65
T Bank Ltd.(TBL)	Primary	220.00
	Secondary	48.75	10.71	4.94	4.14	4.06
Druk Wang Alloys Ltd. (DWAL)	Primary
	Secondary	0.54	0.37	0.53	0.98	2.43

cont...

Table 12.16 cont...

S.D Eastern Bhutan Coal Company Ltd.(EBCC)	Primary
	Secondary	0.15	0.38	0.34	0.23	0.36
Kuensel corporation Ltd. (KCL)	Primary
	Secondary	...	0.13	0.05	...	0.10
Penden Cement Authority Ltd.(PCAL)	Primary
	Secondary	4.55	1.32	2.39	27.66	17.76
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	Primary
	Secondary	1.91	2.77	1.72	13.53	10.36
State Trading Corpn. of Bhutan Ltd.(STCB)	Primary
	Secondary	0.09	...	1.47
Jigme Mining Corporation Ltd. (JMCL)	Primary
	Secondary	1.44	0.89	0.59	2.90	2.68
Druk Ferro Alloys Ltd. (DFAL)	Primary
	Secondary	0.43	10.02	0.87	22.73	0.28
Dungsam Polymers Ltd. (DPL)	Primary	136.49
	Secondary	8.34	2.26	0.57
Bhutan Insurance Ltd. (BIL)	Primary
	Secondary	4.47	6.27	31.76	11.48	13.56
GIC-Bhutan Re-Limited (GBRL)	Primary	500.00	...
	Secondary	4.22	4.04
TOTAL		352.90	219.10	366.32	681.87	193.78

Source: Royal Securities Exchange of Bhutan Ltd.Thimphu

Table 12.17: Dividend Declared by the Company, (2011-2015)

(In Percent)

Company	2011	2012	2013	2014	2015
Bhutan Board Products Ltd. (BBPL)	12	...	10	7	8
Bhutan Carbide & Chemicals Ltd.(BCCL)	10	25	40	40	10
Bhutan Ferro Alloys Ltd.(BFAL)	65	60	65	75	40
Bhutan Insurance Ltd.(BIL)	15	10	10	9	17
Bhutan National Bank Ltd.(BNBL)	...	17	8	10	14
Bhutan Polymers Company Ltd.(BPCL)	10	5	8	...	15
Bhutan Tourism Corpn. Ltd (BTCL)	25	25	25	15	...
Druk Ferro Alloys Ltd.(DFAL)	23	17	20	30	...
Druk PNB Bank Ltd.(DPNB)	...	6	7	8	...
Druk Plaster & Chemicals Ltd.(DPOP)	15	25	10
Druk Satair Corpn. Ltd.(DSCL)	75	70	100	125	130
Druk Wang Alloys Ltd.(DWAL)	60	30	50	70	15
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	65	75	200	300	200
Jigme Mining Corporation Ltd.(JMCL)	100	100	125	150	200
Kuensel Corporation Ltd.(KCL)	20	12	...	12	18
Penden Cement Authority Ltd.(PCAL)	100	100	90	80	35
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	30	35	45	35	20
T Bank Ltd. (TBL)	6	6
State Trading Corpn. of Bhutan Ltd.(STCB)	20	15
Dungsam Polymers Ltd.(DPL)
GIC-Bhutan Re-Limited (GBRL)

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Table 12.18 Bonus/Rights/Employee Stock Options (ESoP)/Off Market Transaction, (2011 - 2015)

(No. of shares)

COMPANY	2011	2012	2013	2014	2015
Druk Ferro Alloys Ltd. (DFAL)
Bhutan National Bank Ltd. (BNBL)	3,203,166	13,516,682	5,068,756	10,136,991	...
Druk Satair Corpn. Ltd. (DSCL)
Jigme Mining Corporation Ltd.(JMCL)	142,231
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	2,400,000	72,000,000
State Trading Corpn. of Bhutan Ltd.(STCB)	200,003	300,005	900,008
T Bank Ltd. (TBL)	800,000
Druk PNB Bank Ltd. (DPNB)	...	1,490,273	3,650	32,000	28,770
Bhutan Insurance Ltd. (BIL)	...	1,000,000
Druk Wang Alloys Ltd. (DWAL)	969,961
TOTAL	3,545,400	16,306,960	6,772,414	12,568,991	72,998,731

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Until the inception of five year development plan in the country, the economic activities were basically involved in traditional way. The economic transaction was done through barter system; taxes were being collected in the form of kind and labor. The citizens were to remit certain portion of their agricultural, forest and livestock produce to government and mandatory to provide labor services to accomplish national developmental activities.

With start of Five Year Plan development in 1961 and steady economic integration at regional to global level has necessitated institutionalization of contemporary public finance system in the country. For this, the position of a Finance Secretary was created in the Royal Secretariat in 1963 and Ministry of Finance is one among the first few Ministries established in 1968. Further with introduction of Bhutanese paper currency in 1974, there has been systematic transition from barter system to monetized economy and the ancient taxation system has been gradually phased out and replaced by monetary taxation. In order to institutionalize the fair and equitable taxation and for coherent and rational tax system, taxation policy were initiated in the year 1989. The taxation policy was further revised in 1992, to trim down the tax formation and also to widen tax base in the country.

As required by Public Finance Act, 2007, the Ministry of Finance is responsible for overall financial management through effective and efficient use of public resources. As mandated for maintaining sound fiscal and macroeconomic policies, it coordinate, presents and produce macro-fiscal or government finance statistics of the country. Share of government expenditure to GDP is substantial and is significant for overall economic development of the country.

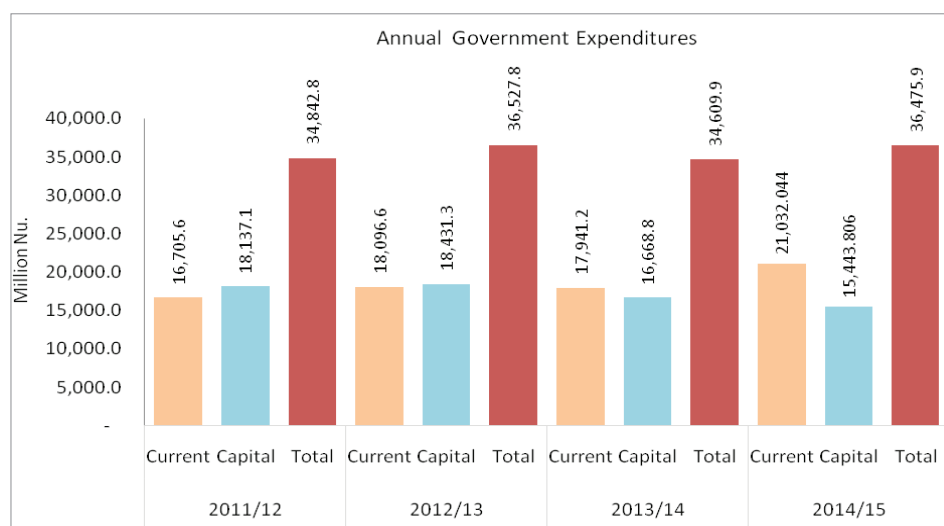


Table 13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2010/11 To 2014/15

(Nu. in million)

Agency	2010/2011	2011/12	2012/13	2013/14	2014/15
Ministry	7,770.973	9,234.328	10,095.127	9,451.016	10,849.192
Ministry of Home & Cultural Affairs	1,041.934	1,244.784	1,294.970	1,391.982	1,482.861
Ministry of Finance	2,996.694	3,702.939	4,404.295	3,991.738	4,226.497
Ministry of Foreign Affairs	393.283	484.038	516.263	552.268	529.463
Ministry of Agriculture & Forests	1,159.474	1,326.203	1,381.678	1,489.781	1,739.289
Ministry of Economic Affairs	248.340	258.384	248.740	245.989	309.807
Ministry of Works & Human Settlement	372.668	406.098	417.044	423.675	497.333
Ministry of Information & Communications	148.166	271.947	184.330	178.575	218.142
Ministry of Health	1,034.469	1,196.972	1,294.622	840.545	843.424
Ministry of Education	199.159	164.762	168.101	152.531	783.946
Ministry of Labour & Human Resources	176.786	178.201	185.084	183.932	218.430
Judiciary	172.058	189.337	206.721	225.945	259.929
Constitutional Bodies	234.367	381.224	589.405	274.232	279.184
Royal Civil Service Commission	32.845	35.070	38.962	46.789	57.283
Anti-Corruption Commission	24.585	29.590	35.595	34.584	44.703
Election Commission of Bhutan	86.516	213.263	412.871	90.702	44.757
Royal Audit Authority	90.421	103.301	101.977	102.157	132.441
Autonomous Bodies	1,928.608	1,687.296	1,734.889	2,424.393	3,049.232
His Majesty's Secretariat	50.923	36.211	30.349	27.305	33.659
His Majesty's Secretariat (4th King)	17.667	17.671	18.759	17.447	21.660
National Assembly of Bhutan	75.832	88.307	95.939	76.681	98.892
National Council of Bhutan	49.899	55.209	63.601	61.542	67.344
Council For Religious Affairs	437.381	472.200	484.073	503.060	571.636
Cabinet Secretariat	33.217	39.297	50.461	33.240	40.464
Office of The Attorney General	17.071	17.458	19.252	20.540	25.535
Bhutan Olympic Committee	29.822	32.252	38.918	23.788	24.327
Dzongkha Development Commission	17.129	16.634	14.822	14.574	19.248

cont...

Table 13.1 cont...

Agency	2010/2011	2011/12	2012/13	2013/14	2014/15
National Land Commission	237.637	242.243	218.607	198.878	232.482
Centre For Bhutan Studies And GNH Research	24.015	16.026	17.960	11.692	38.298
Gross National Happiness Commission	32.253	35.142	34.384	34.946	39.245
National Environment Commission	19.719	27.256	27.151	33.716	33.276
Royal Institute of Management	39.534	44.061	41.530	40.114	48.311
Royal University of Bhutan	393.042	0.000	0.000	0.000	0.575
National Statistics Bureau	20.081	27.315	26.669	22.734	30.426
Bhutan Narcotic Control Agency	9.613	11.887	11.494	12.764	16.776
Bhutan Information Communication Media Authority	12.628	14.307	14.227	14.668	17.620
Thromdeys	316.193	334.632	344.203	520.185	591.860
Drug Regulatory Authority	7.009	7.784	8.113	9.141	11.660
Tourism Council of Bhutan	52.593	46.050	47.118	48.657	56.298
National Commission For Women & Children	15.185	18.441	13.869	10.548	12.551
Royal Education Council	20.165	17.968	19.001	23.147	17.905
Bhutan Council For School Examination & Assessment	...	59.452	61.538	68.085	90.504
Royal Privy Council	...	9.493	8.288	9.464	13.328
Bhutan Standard Bureau	24.563	23.551	28.427
Khesar Gyalpo University Of Medical Sciences Of Bhutan	560.194	20.973
Royal Institute of Law	3.732	8.168
Bhutan National Legal Institute	17.005
Civil Society Organisations Authority	4.027
Jigme Dorji Wangchuk National Referral Hospital	816.752
Dzongkhag Administration	4,495.647	5,052.937	5,285.211	5,375.795	6342.087
Gewog Administration	133.424	160.529	185.206	189.777	252.424
Total Expenditure	14,735.077	16,705.651	18,096.559	17,941.158	21032.048

Source : Annual Financial Statement, Department of Public Accounts, MoF, Thimphu.

Table 13.2: Actual Annual Capital Expenditure of the Government by Agency for the FY 2010/11 To 2014/15

(Nu. in million)

Ministry	2010/2011	2011/12	2012/13	2013/14	2014/15
Ministry of Home & Cultural Affairs	8,285.279	10,180.910	11,053.986	11,620.247	10,591.096
Ministry of Finance	538.049	713.135	619.224	373.123	658.583
Ministry of Foreign Affairs	931.333	1,243.859	1,425.346	3,982.025	1,954.083
Ministry of Agriculture & Forests	22.899	155.582	21.592	14.414	26.296
Ministry of Economic Affairs	627.826	756.363	1,188.594	1,110.801	997.912
Ministry of Works & Human Settlement	1641.957	610.754	525.508	455.588	484.284
Ministry of Information & Communications	2403.801	3,666.457	4,247.685	3,603.307	3,775.760
Ministry of Health	1034.758	1,311.630	1,140.182	519.773	699.476
Ministry of Education	387.956	477.007	504.815	603.279	683.024
Ministry of Labour & Human Resources	529.922	959.351	1,144.178	714.243	1,014.719
Judiciary	166.778	286.772	236.862	243.694	296.959
Constitutional Bodies	85.211	341.032	434.457	299.663	173.231
Royal Civil Service Commission	151.458	216.531	210.693	209.133	272.897
Anti-Corruption Commission	98.796	110.159	103.601	91.186	118.526
Election Commission of Bhutan	29.004	40.406	44.934	69.253	40.185
Royal Audit Authority	9.918	22.078	29.122	16.095	89.055
Autonomous Bodies	13.74	43.888	33.036	32.599	25.131
His Majesty's Secretariat	1,674.566	1,628.565	2,066.471	1,041.105	989.330
His Majesty's Secretariat (4th King)	7.409	5.675	5.302	1.407	2.162
National Assembly of Bhutan	0.211	1.478
National Council of Bhutan	7.822	5.476	9.129	26.824	21.525
Council For Religious Affairs	3.034	6.129	17.770	19.071	14.324
Cabinet Secretariat	96.482	173.505	245.803	183.803	156.006
office of The Attorney General	12.37	16.372	7.007	8.720	22.552
Bhutan Olympic Committee	2.279	24.659	30.332	25.729	29.751
Dzongkha Development Commission	20.316	16.817	21.871	12.636	11.004
National Land Commission	6.518	6.632	5.580	5.165	3.299
	111.988	165.981	181.638	130.498	137.351

cont...

Table 13.2 cont...

	2010/2011	2011/12	2012/13	2013/14	2014/15
Centre For Bhutan Studies And GNH Research	0.63	3.250	2.912	2.950	1.270
Gross National Happiness Commission	237.555	56.187	59.031	45.383	73.274
National Environment Commission	35.221	56.709	34.530	33.141	60.436
Royal Institute of Management	34.527	80.623	71.761	77.013	51.171
Royal University of Bhutan	576.057	721.113	994.646	104.764	112.525
National Statistics Bureau	3.732	7.857	30.435	16.946	19.151
Bhutan Narcotic Control Agency	1.77	4.324	1.401	1.660	2.433
Bhutan Information Communication Media Authority	131.176	40.098	100.681	25.404	2.671
Thromdeys	58.531	74.850	66.002	69.526	34.771
Drug Regulatory Authority	0.811	3.538	3.200	3.221	3.937
Tourism Council of Bhutan	259.061	86.644	106.380	127.016	82.216
National Commission For Women & Children	1.91	11.373	19.650	12.629	26.030
Royal Education Council	65.156	50.077	36.371	18.183	1.849
Bhutan Council For School Examination & Assessment	...	9.012	6.638	9.425	10.632
Royal Privy Council	...	0.186	2.896	1.336	1.219
Bhutan Standard Bureau	5.505	1.876	7.397
Khesar Gyalpo University of Medical Sciences of Bhutan	73.721	16.310
Royal Institute of Law	3.058	6.118
Bhutan National Le Gal Institute	6.727
Civil Society Organizations Authority	0.090
Jigme Dorji Wangchuck National Referral Hospital	71.129
Dzongkhag Administration	3,047.693	3,381.981	3,089.335	2,272.550	2,391.211
Gewog Administration	1,542.639	2,388.097	1,576.328	1,226.056	1,026.036
Total Expenditure	14,786.846	18,137.116	18,431.270	16,668.754	15,443.801

Source : Annual Financial Statement, Department of Public Accounts, Mof, Thimphu.

Table 13.3: The Sector-wise Government Expenditures for the FY 2011/12 To 2014/15

(Nu. in million)

Sectors	2011/12		2012/13		2013/14		2014/15	
	Current	Capital	Current	Capital	Current	Capital	Current	Capital
Social Services	5,409.868	4,269.844	5,746.016	4,315.158	6,085.223	2,635.160	7,729.926	3,029.017
Health	1,783.509	1,171.162	1,920.165	1,031.632	2,049.465	924.672	2,473.893	983.760
Education	3,626.359	3,098.682	3,825.851	3,283.526	4,035.758	1,710.488	5,256.033	2,045.257
Economic Services	2,766.797	8,650.046	2,767.982	8,730.784	2,882.380	6,701.375	3,388.883	7,027.985
RNR Services	1,686.597	3,047.616	1,738.608	3,009.251	1,857.977	2,216.113	2,160.221	1,983.035
Mining, Manufg. & Industries Services	182.052	57.114	175.954	101.874	158.401	62.712	192.791	108.490
Transport & Communication Services	579.149	4,601.973	526.376	4,848.729	521.456	3,611.172	613.632	4,154.617
Energy Services	60.303	540.305	60.749	417.011	70.427	387.544	89.219	361.354
Other Economic Services	258.696	403.038	266.295	353.919	274.119	423.834	333.020	420.489
Housing & Public Amenities Services	307.224	764.139	320.050	904.185	333.402	861.969	404.822	725.864
General Public Services	6,297.432	2,825.491	7,241.650	2,861.621	6,481.871	5,072.188	7,114.433	3,134.840
General Public Service	3,285.159	1,957.466	3,520.594	1,910.982	3,226.034	1,531.739	3,774.839	1,545.924
Public Debt Services	3,012.273	868.025	3,721.056	950.639	3,255.837	3,540.449	3,339.594	1,588.916
Religion & Cultural Services	582.809	854.099	596.965	958.621	628.990	888.034	752.489	1,105.009
Public Order & Safety Services	1,341.518	773.497	1,423.887	660.897	1,529.285	510.025	1,641.491	421.091
Total Expenditure	16,705.648	18,137.116	18,096.550	18,431.266	17,941.151	16,668.751	21,032.044	15,443.806

Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Table 13.4: Summary of National Revenue of the Government by Source for the FY 2010/11 To 2014/15

(Nu. in Million)

By Source	2010/11	2011/12	2012/13	2013/14	2014/15
Tax Revenue	11,593.47	14,676.93	15,403.12	16,182.77	18,387.34
Direct Tax	8,025.57	8,987.04	9,390.04	11,132.04	11,626.97
Corporate Income Tax	5,109.89	5,186.09	4,864.28	6,127.43	6,488.78
Business Income Tax	1,109.88	1,299.15	1,690.63	1,783.89	1,585.02
Personal Income Tax	704.93	925.18	1,112.05	1,280.98	1,536.16
Other Tax Revenue	1,100.87	1,576.62	1,723.08	1,939.75	2,017.02
Motor Vehicle Tax	177.46	209.55	218.11	250.01	248.25
Business & Professional Licences	65.87	75.57	79.56	93.72	104.95
Airport service tax	35.08	42.05	44.41	51.32	59.13
Dzongkhag Municipal tax	5.91	3.33	3.68	5.58	8.45
Health Contribution	105.17	131.48	145.83	157.41	32.19
Royalties	711.38	1,114.62	1,231.49	1,381.71	1,564.04
Indirect Tax	3,567.90	5,689.89	6,013.08	5,050.73	6,760.37
Sales Tax	1,636.41	2,392.36	2,171.03	2,162.89	3,060.07
Excise Duty	1,605.34	2,836.92	3,481.83	2,556.47	2,686.85
Customs Duty	305.95	438.38	305.54	312.79	447.40
Green Tax	35.94	16.90	545.87
Other Indirect Tax Revenue	20.20	22.23	18.75	1.68	20.18
Non Tax Revenue	5,865.31	5,677.53	5,698.57	7,061.84	6,753.69
Administrative Fees & Charges	389.93	336.75	331.06	349.22	350.52
Dividends	2,997.21	2,946.90	3,035.78	3,779.39	3,692.13
Revenue from Govt. Departments	236.93	300.63	342.61	357.99	454.17
Capital Revenue	93.32	105.84	88.89	82.36	110.06
Net Surplus Transfer	398.09	254.25
Other Non-Tax Revenue	18.68	68.74	84.27	81.02	115.37
Interest on loan from corporations	1,731.17	1,664.42	1,815.95	2,411.87	2,031.44
Total Revenue	17,458.79	20,354.46	21,101.69	23,244.61	25,141.03

Source : National Revenue Report, Department of Revenue & Customs, MoF, Thimphu.

Table 13.5: Fiscal Framework of Government, Bhutan 2010/11 To 2014/15

(Nu. in Millions)

Item	2010/11	2011/12	2012/13	2013/14	2014/15
Revenue & Grants	28,171.751	32,646.355	30,656.116	37,819.123	36,231.052
Domestic Revenue	17,458.797	20,354.462	21,101.691	23,244.610	25,141.030
Tax revenue	11,593.486	14,676.929	15,403.118	16,182.774	18,387.335
Non-tax revenue	5,865.311	5,677.533	5,698.573	7,061.836	6,753.695
Other Receipts	215.235	(209.627)	(8.210)	338.160	1,135.001
Grants	10,497.719	12,501.520	9,562.635	14,236.353	9,955.021
Programme Grants	1,781.161	1,721.654	2,618.453	1,749.693	2,125.000
GoI	1,400.000	1,400.000	1,050.000	1,625.000	2,125.000
Other Donors	381.161	321.654	1,568.453	124.693	...
Project Tied Grants	8,716.558	10,779.866	6,944.182	12,486.660	7,830.021
GoI	6482.768	7603.442	3643.402	9059.43	4468.76
Other Donors	2233.79	3176.424	3300.78	3427.23	3361.261
Outlay	29,842.451	33,688.009	34,900.809	33,522.834	34,334.259
Total Expenditure	29,521.923	34,842.762	36,527.815	34,609.903	36,475.849
Current	14,735.077	16,705.648	18,096.551	17,941.151	21,032.044
Capital	14,786.846	18,137.114	18,431.264	16,668.752	15,443.805
Net lending (NL)	(906.605)	(1,036.573)	(739.889)	(1,331.989)	(2,552.746)
Advance/Suspense (Net)	1,227.133	(118.180)	(887.117)	244.920	411.156
Overall Balance	(1,670.692)	(1,041.654)	(4,244.692)	4,296.289	1,896.795
Financing	(1,082.752)	(3,055.948)	(3,260.080)	(4,120.987)	(1,896.795)
Net Borrowings	293.970	(1,007.147)	492.306	(867.009)	(1,086.409)
Borrowings	3,110.010	6,212.866	16,463.456	1,534.544	1,685.268
Repayments	2,816.040	7,220.013	15,971.150	2,401.553	2,771.677
Resource Gap	(1,376.722)	(2,048.801)	(3,752.386)	(3,253.978)	(810.386)

Source : Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Table 13.6: Revenue Collection by Sector, FY 2010/11 To 2014/15

(Nu. in Millions)

Sector	2010/11	2011/12	2012/13	2013/14	2014/15
Primary (Agriculture)	368.02	375.85	372.31	403.42	629.69
Industry	4,476.27	4,205.12	4,307.93	5,269.80	5,122.11
Manufacturing	658.34	592.57	602.77	548.44	682.44
Electricity	3,817.92	3,612.55	3,705.16	4,721.36	4,439.66
Service	7,472.56	10,511.49	11,291.41	10,736.61	12,862.40
Services (Transport, communication, hotel & restaurant)	2,042.12	2,498.07	2,739.81	2,962.02	4,776.74
Trade	4,882.97	7,166.66	7,816.84	7,122.25	7,444.50
Finance	547.47	846.75	734.76	652.34	641.16
Gross Sectoral Revenue Collection ¹	12,316.84	15,092.46	15,971.65	16,409.83	18,614.19

Note : ¹ Sectoral revenue are based on gross collection and excludes PIT collections, Druk Holding Investment (DHI) dividends and interest receipts on loan from corporations

Source: National Revenue Report, Department of Revenue & Customs, Ministry of Finance

Table 13.7: Government Debt Stock & Debt Service, (2010/11 To 2014/15)

(Nu. in Millions)

Debt	2010/11	2011/12	2012/13	2013/14	2014/15
Total Public Debt	48,619.18	62,813.11	101,310.19	108,370.35	120,783.00
Domestic Debt	876.51	1,092.55	6,342.72	2,913.44	2,106.81
External Debt	47,742.67	61,720.56	94,967.47	105,456.91	118,676.19
Indian Rupee Debt	24,647.54	32,546.30	60,826.65	67,870.16	81,183.64
Convertible Currency Debt	23,095.13	29,174.26	34,140.82	37,586.76	37,492.55
Total Debt Service	4,610.09	9,106.06	19,659.64	23,530.08	24,118.27
Domestic	733.88	5,067.55	13,253.95	12,719.04	15,639.24
External	3,876.21	4,038.51	6,405.69	10,811.04	8,479.04
Interest payment	1,794.05	1,886.04	3,371.73	2,871.23	2,646.62
Domestic	59.21	76.15	186.19	153.28	45.08
External	1,734.85	1,809.89	3,185.54	2,717.96	2,601.53
Indian Rupee	1,497.56	1,497.56	2,731.25	2,208.77	2,044.18
Convertible Currency	237.29	312.33	454.29	509.19	557.35
Principal payment	2,816.04	7,220.02	16,287.91	20,658.84	21,471.66
Domestic	674.68	4,991.40	13,067.76	12,565.76	15,594.16
External	2,141.36	2,228.62	3,220.15	8,093.08	5,877.50
Indian Rupee	1,581.84	1,581.84	2,486.27	7,227.76	4,816.13
Convertible Currency	559.52	646.78	733.88	865.32	1,061.37

Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Development planning in Bhutan can be tracked back to the year 1961 when the first Five Year Plan (1961/62 to 1965/66) was drawn up. Initially, self-contained development secretariat was established to implement the plan. At the time of preparation of the third plan in 1971, the Planning Commission (now, Gross National Happiness Commission) was established headed by the His Majesty the King. In the absence of basic economic information and skilled manpower, the formulation of the third plan, like earlier ones was relatively simple. Major developments in regard to the consolidation of the planning process took place in the fourth plan period, when the Dzongkhags were involved in the development process.

The **Ninth Five Year Plan (2002-2007)** focused on five major goals; 1. Improve the quality of life and income, 2. Ensure good governance, 3. Promote private sector growth and employment generation, 4. Preserve and promote cultural heritage and conservation of environment, 5. Achieve rapid economic growth and transformation. The plan, as a whole, emphasized on perusing maximization of Gross National Happiness as a development goal and an objective.

The **Tenth Five Year Plan (2008-2013)** emphasized on poverty reduction as a primary goal, achieving country's long term development vision of Gross National Happiness (GNH) and Bhutan's commitment towards global compacts, including Millennium Development Goals (MDGs).

The **Eleventh Five Year Plan (2013-2018)** is the second five year plan being implemented since the introduction of Democratic Constitutional Monarchy in 2008. A notable paradigm shift of the 11th FYP is the adoption of a result based planning (RBP) framework that articulates clear outcomes and outputs that need to be achieved in order to realize the eleventh plan objectives of "*Self-reliance and Inclusive Green Socio-Economic Development*".

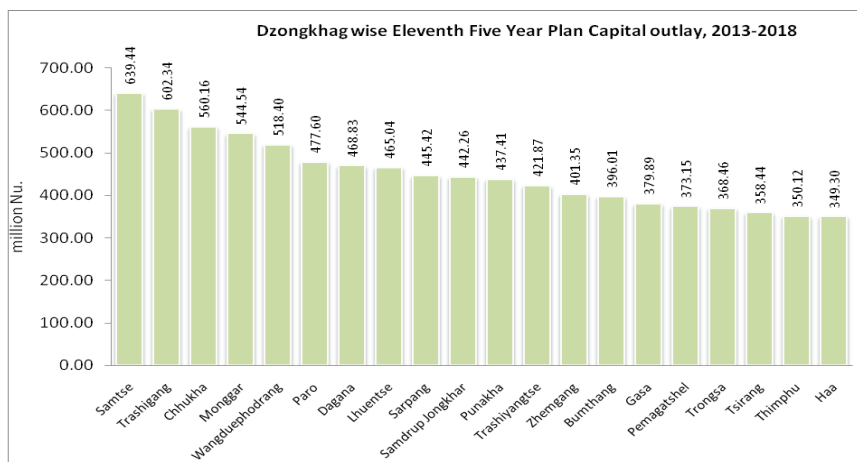


Table 14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan, 2008/2013

(Nu. in Million)

Organization	Recurrent	Capital	Total	Percent
Constitutional Bodies	1,577.88	5,199.11	6,776.98	4.62
Judiciary	611.89	724.51	1,336.40	0.91
Royal Audit Authority	289.02	53.56	342.57	0.23
Election Commission Of Bhutan	523.50	79.91	603.41	0.41
Anti Corruption Commission	64.66	125.37	190.03	0.13
Royal Civil Service Commission	88.81	4,215.76	4,304.57	2.94
Autonomous Agencies	5,783.46	6,503.98	12,287.44	8.40
His Majesty's Secretariat	147.22	100.00	247.22	0.17
Secretariat of His Majesty the Fourth King	89.33	50.00	139.33	0.10
National Assembly Secretariat	252.86	42.91	295.77	0.20
Royal Advisory Council (National Council)	149.59	56.99	206.58	0.14
Cabinet Secretariat	141.18	15.58	156.76	0.11
Office of the Attorney General	64.84	56.15	120.99	0.08
GNH Commission	170.08	1,050.00	1,220.08	0.83
National Land Commission	454.81	385.86	840.67	0.57
National Environment Commission	78.02	109.30	187.32	0.13
Dzongkha Development Commission	77.10	30.60	107.70	0.07
Council for Ecclesiastical Affairs	1,864.27	633.55	2,497.82	1.71
National Statistics Bureau	129.20	45.29	174.49	0.12
Royal University of Bhutan	1,532.97	2,427.10	3,960.07	2.71
Royal Institute of Management	129.19	275.05	404.24	0.28
Centre for Bhutan Studies	45.50	50.00	95.50	0.07
Bhutan Narcotic Control Agency	23.00	21.40	44.41	0.03
Bhutan Olympic Committee	158.26	100.00	258.26	0.18
Bhutan Broadcasting service Corporation	...	406.78	406.78	0.28
National commission for Women and Children	70.82	64.21	135.02	0.09
Bhutan Information Communication Media Authority	38.32	10.50	48.82	0.03
Drug Regulatory Authority	16.15	...	16.15	0.01
Tourism Council of Bhutan	150.75	572.71	723.45	0.49

cont...

Table 14.1 cont...

Organization	Recurrent	Capital	Total	Percent
Ministries	48,897.65	49,908.69	98,806.32	67.56
Ministry of Agriculture	4,497.09	3,626.51	8,123.60	5.55
Ministry of Education	875.12	9,489.13	10,364.25	7.09
Ministry of Finance	29,632.49	699.92	30,332.41	20.74
Ministry of Foreign Affairs	1,319.63	447.51	1,767.14	1.21
Ministry of Health	4,175.97	4,394.34	8,570.30	5.86
Ministry of Home and Cultural Affairs	4,301.61	3,000.64	7,302.24	4.99
Ministry of Information and Communication	561.99	3,776.47	4,338.46	2.97
Ministry of labour and Human Resources	742.67	1,446.07	2,188.74	1.50
Ministry of Economic Affairs	1,057.54	5,763.18	6,820.72	4.66
Ministry of Works and Human Settlements	1,733.54	17,264.92	18,998.46	12.99
Others	963.97	...	963.97	0.66
Thimphu Thromdey Schools	963.97	...	963.97	0.66
Total (Constitutional Bodies, Autonomous Bodies and Ministries)	57,222.95	61,611.76	118,834.70	81.25
Dzongkhags and Gewogs	15,417.52	12,000.00	27,417.52	18.75
Dzongkhags	...	7,200.00	7,200.00	4.92
Gewogs	...	4,800.00	4,800.00	3.28
Total Outlay	72,640.47	73,611.76	146,252.22	100.00

Source: "Tenth Plan Document 2008-2013", GNH Commission, Thimphu.

Table 14.2: Eleventh Plan Budgetary Outlay and Allocation, Bhutan (2013-2018)

(Nu. in Million)

Organization	Outlays			% of Total
	Current	Capital	Total	
Constitutional Body	2,613.50	1,567.50	4,181.00	1.96
Judiciary	1,247.99	623.00	1,870.99	0.88
Royal Audit Authority	659.01	216.00	875.01	0.41
Election Commission Of Bhutan	220.58	428.00	648.58	0.30
Anti Corruption Commission	237.53	93.50	331.03	0.16
Royal Civil Service Commission	248.39	207.00	455.39	0.21
Autonomous Agency	11,619.16	7,014.65	18,633.81	8.74
His Majesty's Secretariat	182.14	...	182.14	0.09
Secretariat of His Majesty the Fourth King	135.06	...	135.06	0.06
National Assembly Secretariat	535.12	54.00	589.12	0.28
National Council	355.36	330.00	685.36	0.32
Royal Privy Council	83.89	...	83.89	0.04
Cabinet Secretariat	179.61	23.00	202.61	0.09
Office of the Attorney General	124.87	43.90	168.77	0.08
Gross National Happiness Commission	227.95	625.00	852.95	0.40
National Land Commission	1,182.19	500.00	1,682.19	0.79
National Environment Commission	183.94	374.00	557.94	0.26
Dzongkha Development Commission	88.34	63.00	151.34	0.07
Council for Religious Affairs	2,983.26	379.00	3,362.26	1.58
National Statistics Bureau	153.46	92.44	245.90	0.12
Royal University of Bhutan	...	1,086.45	1,086.45	0.51
Royal Education Council	181.43	292.00	473.43	0.22
Bhutan Council for School Examination & Assessment	404.01	50.00	454.01	0.21
Royal Institute of Law & Bhutan National Legal Institute	32.80	589.50	622.30	0.29
University of Medical Sciences of Bhutan	3,233.61	487.30	3,720.91	1.74
Royal Institute of Management	280.94	273.00	553.94	0.26
Centre for Bhutan Studies	97.64	14.50	112.14	0.05
Bhutan Narcotic Control Agency	87.94	45.00	132.94	0.06
Bhutan Olympic Committee	176.07	395.00	571.07	0.27

cont...

Table 14.2 cont...

Organization	Outlays			% of
	Current	Capital	Total	Total
Bhutan Broadcasting service Corporation	...	340.00	340.00	0.16
National commission for Women and Children	99.17	55.00	154.17	0.07
Bhutan Information Communication Media Authority	93.75	118.25	212.00	0.10
Bhutan Standard Bureau	145.77	36.00	181.77	0.09
Drug Regulatory Authority	56.67	33.00	89.67	0.04
Tourism Council of Bhutan	314.17	345.61	659.78	0.31
Royal Institute of Tourism and Hospitality	...	25.50	25.50	0.01
JDWNR Hospital	...	334.20	334.20	0.16
CSO Authority	...	10.00	10.00	0.00
Ministry	70,429.48	55,657.19	126,086.67	59.11
Ministry of Agriculture and Forest	8,786.88	4,856.00	13,642.88	6.40
Ministry of Education	933.75	7,438.74	8,372.49	3.93
Ministry of Finance	38,589.53	2,678.55	41,268.08	19.35
Ministry of Foreign Services	3,287.34	320.00	3,607.34	1.69
Ministry of Health	4,306.82	3,839.41	8,146.23	3.82
Ministry of Home and Cultural Affairs	8,076.18	3,702.00	11,778.18	5.52
Ministry of Information and Communication	1,068.58	3,548.43	4,617.01	2.16
Ministry of Labour and Human Resources	1,271.25	1,383.00	2,654.25	1.24
Ministry of Economic Affairs	1,626.42	6,782.06	8,408.48	3.94
Ministry of Works and Human Settlements	2,482.73	21,109.00	23,591.73	11.06
Others (HRD and Exigencies)	...	2,910.66	2,910.66	1.36
Human Resource Development	...	2,000.00	2,000.00	0.94
Other Capital (Vehicles, misc. exigences etc.)	...	910.66	910.66	0.43
Total for Central Agencies	84,662.14	67,150.00	151,812.14	71.18
Local Governments	36,629.32	24,850.00	61,479.32	28.82
Dzongkhags and Gewogs	33,578.44	20,000.00	53,578.44	25.12
Thromdey	...	4,850.00	4,850.00	2.27
Thromdey Schools	3,050.88	...	3,050.88	1.43
Total Outlay	121,291.46	92,000.00	213,291.46	100.00

Source: Eleventh Five Year Plan Document 2013-2018", GNH Commission, Thimphu.

Table 14.3: Dzongkhag Wise Ninth Five Year Plan Outlay, Bhutan, 2002 to 2007

(Nu.in Million)

Dzongkhags	Current	Capital	Total
Bumthang	274.96	198.8	473.8
Chhukha	647.6	797.9	1,445.5
Dagana	197.2	315.1	512.3
Gasa	98.9	145.8	244.7
Ha	252.7	290.1	542.8
Lhuentse	269.1	617.3	886.3
Monggar	496.6	651.5	1,148.1
Paro	487.7	602.5	1,090.1
Pemagatshel	309.3	444.5	753.8
Punakha	355.9	303.0	658.9
Samdrup Jongkhar	523.5	645.2	1,168.7
Samtse	327.7	592.9	920.6
Sarpang	503.9	490.4	994.2
Thimphu	740.4	677.8	1,418.2
Trashigang	671.5	781.3	1,452.8
Trongsa	255.9	309.4	565.3
Tsirang	210.1	316.6	526.7
Wangdue Phodrang	414.9	355.8	770.7
Zhemgang	466.2	425.4	891.6
Total	7,802.5	9,318.3	17,120.8

Source: "Ninth Plan Main Document 2002-2007", Planning Commission, Thimphu.

Table 14.4: Dzongkhag Wise Tenth Five Year Plan Outlay, 2008 to 2013

(Nu.in Million)

Dzongkhags	Current	Capital	Total
Bumthang	...	139.0	139.0
Chhukha	792.7	483.1	1,275.8
Dagana	294.2	273.6	567.8
Gasa	...	58.9	58.9
Ha	...	123.6	123.6
Lhuentse	226.9	292.6	519.5
Monggar	486.9	529.0	1,016.0
Paro	...	259.1	259.1
Pemagatshel	474.5	278.9	753.4
Punakha	277.3	244.6	522.0
Samdrup Jongkhar	...	358.0	358.0
Samtse	...	715.2	715.2
Sarpang	369.3	316.7	686.0
Thimphu	...	177.8	177.8
Trashigang	135.5	225.4	360.9
Trashigang	314.3	686.6	1,000.8
Trongsa	205.8	126.7	332.5
Tsirang	...	200.3	200.3
Wangdue Phodrang	426.9	233.3	660.1
Zhemgang	375.4	247.3	622.7
Total	4,379.7	5,969.7	10,349.4

Note : Capital budget does not include the gewogs capital budget

Source: Gross National Happiness Commission (GNHC), Thimphu.

Table 14.5: Dzongkhag Wise Eleventh Five Year Plan Outlay, 2013 to 2018

(Nu.in Million)

Dzongkhag	Capital
Bumthang	396.01
Chhukha	560.16
Dagana	468.83
Gasa	379.89
Haa	349.30
Lhuentse	465.04
Monggar	544.54
Pemagatshel	373.15
Paro	477.60
Punakha	437.41
Samdrup Jongkhar	442.26
Samtse	639.44
Sarpang	445.42
Trashiyangtse	421.87
Trashigang	602.34
Thimphu	350.12
Trongsa	368.46
Tsirang	358.44
Wangduephodrang	518.40
Zhemgang	401.35
TOTAL	9,000.00

Source: "Eleventh Five Year Plan Vol. I 2013-2018", Gross National Happiness Commission

Table 14.6: Indicative Capital Allocation to Gewogs, Eleventh Five Year Plan (2013-2018)
(Nu. In million)

Dzongkhag	Sl. No.	Gewog	Capital
Bumthang	1	Chhoekhor	58.435
	2	Chhumey	36.654
	3	Tang	31.456
	4	Ura	26.401
		Total	152.946
Chhukha	1	Bjachho	26.286
	2	Bongo	58.631
	3	Chapcha	28.461
	4	Dala	79.562
	5	Dungna	16.079
	6	Geling	27.014
	7	Getena	20.207
	8	Logchina	45.355
	9	Metap	12.191
	10	Phuntsholing	53.715
	11	Sampheling	51.692
	Total	419.193	
Dagana	1	Deorali	20.134
	2	Dorona	16.770
	3	Drujegang	24.928
	4	Gesarling	21.962
	5	Gozhi	25.739
	6	Kana	28.615
	7	Khibisa	20.078
	8	Lajab	15.384
	9	Lhamoizingkha	20.240
	10	Nichula	12.861
	11	Trashiding	25.007
	12	Tsangkha	21.253
	13	Tsendagang	23.222
	14	Tseza	22.151
	Total	298.344	

cont...

Table 14.6 cont..

Dzongkhag	Sl. No.	Gewog	Capital
Gasa	1	Goenkhomey	13.330
	2	Goenkhatoe	11.609
	3	Laya	26.978
	4	Lunana	38.519
		Total	90.436
Haa	1	Bji	34.346
	2	Gakidling	25.019
	3	Katsho	12.569
	4	Sama	23.957
	5	Sangbeykha	22.136
	6	Uesu	22.292
	Total	140.319	
Lhuentse	1	Gangzur	52.713
	2	Jarey	25.175
	3	Khoma	39.027
	4	Kurtoe	34.093
	5	Menbi	34.494
	6	Metsho	26.694
	7	Minji	28.187
	8	Tsenkhar	35.584
	Total	275.967	
Monggar	1	Balam	22.574
	2	Chali	27.123
	3	Chaskhar	37.644
	4	Drametse	39.090
	5	Drepong	20.991
	6	Gongdue	31.133
	7	Jurmey	34.732
	8	Kengkhar	43.098
	9	Mongar	46.165
	10	Narang	23.411
	11	Ngatshang	26.524
	12	Saleng	41.824

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
	13	Sherimung	36.055
	14	Silambi	28.559
	15	Thangrong	32.240
	16	Tsakaling	25.786
	17	Tsamang	24.362
			Total
Paro	1	Doga	19.433
	2	Dopshari	23.478
	3	Doteng	14.518
	4	Hungre	11.307
	5	Lamgong	22.873
	6	Lungnyi	20.208
	7	Naja	35.624
	8	Shaba	30.342
	9	Tsento	45.520
	10	Wangcha	36.711
		Total	260.014
Pema Gatshel	1	Chimung	12.802
	2	Chokhorling	15.226
	3	Chongshing	13.440
	4	Dechenling	26.382
	5	Dungmen	20.073
	6	Khar	22.457
	7	Nanong	28.663
	8	Norbugang	25.661
	9	Shumar	40.146
	10	Yurung	14.552
	11	Zobel	18.233
		Total	237.635
Punakha	1	Baap	23.801
	2	Chhubu	24.158
	3	Dzoma	18.171
	4	Goenshari	12.747

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
	5	Guma	29.490
	6	Kabjisa	27.870
	7	Lingmukha	9.966
	8	Shengana	15.111
	9	Talo	16.175
	10	Toebesa	20.654
	11	Toewang	23.137
			Total
Samdrup Jongkhar	1	Dewathang	38.214
	2	Gomdar	41.287
	3	Langchenphu	21.334
	4	Lauri	56.009
	5	Martshalla	43.346
	6	Orong	43.662
	7	Pemathang	27.865
	8	Phuntshothang	48.899
	9	Samrang	6.377
	10	Serthi	38.655
	11	Wangphu	35.181
		Total	400.829
Samtse	1	Norgaygang	67.834
	2	Pemaling	54.561
	3	Sang Ngag Chhoeling	52.654
	4	Norboogang	64.547
	5	Denchukha	48.251
	6	Dophuchen	80.670
	7	Dungtoed	29.528
	8	Namgyel Chhoeling	53.085
	9	Phuntshopelri	63.013
	10	Samtse	57.882
	11	Trashichholing	43.668
	12	Tadhing	72.359
	13	Tendruk	72.115

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
	14	Ugyentse	26.423
	15	Yoeseltse	44.191
		Total	725.042
Sarpang	1	Samtenling	19.429
	2	Chuzargang	26.024
	3	Dekiling	37.669
	4	Chhuzom	31.841
	5	Gelephu	28.304
	6	Gakidling	32.445
	7	Jigmecholing	49.004
	8	Sershong	20.206
	9	Shompangkha	14.590
	10	Singye	12.949
	11	Tareythang	4.440
	12	Umling	17.129
		Total	294.030
Thimphu	1	Chang	23.699
	2	Dagala	16.783
	3	Geyni	11.277
	4	Kawang	24.432
	5	Lingshi	14.889
	6	Mewang	41.487
	7	Naro	11.031
	8	Soe	9.082
		Total	152.680
Trashigang	1	Bartsham	19.854
	2	Bidung	23.992
	3	Kanglung	47.271
	4	Kangpara	34.484
	5	Khaling	38.320
	6	Lumang	60.044
	7	Merak	39.079
	8	Phongme	33.616

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
	9	Radhi	37.330
	10	Sakteng	38.631
	11	Samkhar	30.845
	12	Shongphu	41.308
	13	Thrimshing	29.019
	14	Udzorong	42.583
	15	Yangnyer	33.485
			Total
Trashigang	1	Bumdeling	35.297
	2	Jamkhar	13.973
	3	Khamdang	29.597
	4	Ramjar	13.266
	5	Toetsho	20.473
	6	Tongmijangsa	17.241
	7	Yalang	18.321
	8	Yangtse	21.917
		Total	170.085
Trongsa	1	Drakteng	26.184
	2	Korphu	17.712
	3	Langthel	36.327
	4	Nubi	37.274
	5	Tangsibji	24.593
		Total	142.090
Tsirang	1	Barshong	10.656
	2	Beteni	17.738
	3	Dunglagang	14.807
	4	Goseling	15.470
	5	Kikhorthang	21.289
	6	Mendregang	15.841
	7	Patale	18.380
	8	Phuentenchu	15.591
	9	Rangthangling	16.447
	10	Semjong	17.132

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
	11	Tsholingkhar	16.950
	12	Tsirangtoe	14.807
		Total	195.108
Wangdue Phodrang	1	Athang	25.066
	2	Bjena	22.002
	3	Daga	22.848
	4	Dangchu	19.895
	5	Gangtoe	20.113
	6	Gasetshogom	20.604
	7	Gasetshowom	13.329
	8	Kazhi	26.095
	9	Nahi	13.814
	10	Nyisho	23.864
	11	Phangyuel	13.496
	12	Phobjikha	24.462
	13	Ruepaisa	20.681
	14	Sephu	38.323
	15	Thedtsho	18.794
		Total	323.386
Zhemgang	1	Bardo	41.925
	2	Bjoka	24.384
	3	Goshing	31.792
	4	Nangkor	47.360
	5	Nangla	41.830
	6	Phangkhar	36.129
	7	Shingkhar	34.321
	8	Trong	45.965
		Total	303.706

Source: "Eleventh Five Year Plan Vol. I 2013-2018", Gross National Happiness Commission

The System of National Accounts (SNA) is a systematic framework of accounts that measures the level of economic development and the rate of economic growth over time. It gives a macroeconomic depiction of how the economy as a whole functions and its relationship with the rest of the world. This is measured conventionally through Gross Domestic Product (GDP).

GDP represents the end result of all economic activities that take place in the economy. It is the sum total of value of all goods and services produced within the economic boundary of the country, which are available for final uses such as consumption, investment and exports.

GDP is measured both in current and constant prices. The base year for GDP estimation in Bhutan is the year 2000. The current price estimate reflects the monetary value of all goods and services produced in the economy at prices prevailing in the year of reporting, while the constant price estimate reflects the monetary value of all goods and services at the base year prices. The estimation and compilation methodology is as per the United Nations System of National Accounting. GDP in Bhutan is estimated using production and expenditure approach.

The objective of the National Accounts Statistics is to provide timely, comprehensive and reliable description of the condition and performance of the economy. This is done through measurement of GDP, Gross National Income (GNI), and Final Consumption Expenditure (FCE), Gross Capital Formation (GCF), Saving and Net Exports. These information serve as useful and critical information to politicians, policy makers, planners, academicians, researchers and other users in the overall socio-economic planning and policy formulation, monitoring, analysis, and evaluation of the performance of the economy.

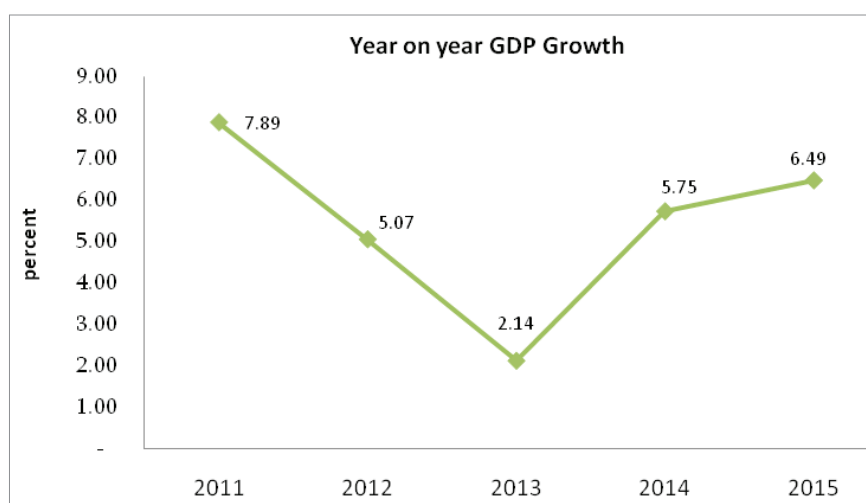


Table 15.1: GDP by Economic Activity at Current Prices, (2011 - 2015)

(Nu. in million)

Sectors	2011	2012	2013	2014	2015
1. Agriculture, Livestock & Forestry	13,868.37	15,558.29	16,969.71	20,050.39	22,007.59
1.1 Crops	7,665.37	8,635.21	9,404.66	12,029.02	13,340.02
1.2 Livestock	3,473.20	3,996.79	4,537.22	4,869.27	5,236.88
1.3 Forestry & Logging	2,729.79	2,926.29	3,027.84	3,152.09	3,430.69
2. Mining & Quarrying	1,941.73	1,961.96	2,793.69	3,376.43	4,484.27
3. Manufacturing	7,044.82	8,623.12	8,778.67	9,705.14	10,543.50
4. Electricity & Water Supply	11,911.61	12,303.14	15,230.29	16,917.83	18,933.12
4.1 Electricity	11,886.16	12,274.39	15,201.13	16,885.90	18,901.14
4.2 Water Supply	25.45	28.75	29.17	31.93	31.99
5. Construction	13,916.57	17,669.80	17,826.07	18,479.70	20,612.96
6. Wholesale & Retail Trade	4,641.79	5,917.59	6,823.31	8,471.66	10,233.35
7. Hotels & Restaurants	948.65	1,298.83	1,616.37	2,045.91	2,485.70
8. Transport, Storage & Communications	8,526.11	9,256.04	9,806.81	11,508.69	11,883.73
9. Financing, Insurance, Real Estates & Business Services	7,007.73	7,412.13	8,064.75	9,048.88	9,827.57
9.1 Finance & Insurance	5,136.84	5,384.96	5,781.09	6,461.22	6,901.34
9.2 Real Estate & Dwellings	1,815.30	1,947.27	2,198.01	2,489.76	2,738.74
9.3 Business Services	55.59	79.90	85.66	97.89	187.48
10. Public Administration	6,478.03	6,775.74	6,981.50	8,079.11	9,103.73
11. Education & Health	4,404.22	4,473.23	4,555.00	4,874.55	5,672.73
12. Private Social & Recreational Services	338.03	390.05	436.86	471.81	503.70
13. Taxes Net of Subsidies	3,922.37	5,813.03	5,495.31	6,515.65	5,729.34
GDP	84,950.01	97,452.96	105,378.35	119,545.75	132,021.30

Source: National Accounts Statistics, NSB

Table 15.2: Percentage Share of GDP by Economic Activity at Current Prices, (2011 - 2015)

Sectors	2011	2012	2013	2014	2015
1. Agriculture, Livestock & Forestry	16.33	15.96	16.10	16.77	16.67
1.1 Crops	9.02	8.86	8.92	10.06	10.10
1.2 Livestock	4.09	4.10	4.31	4.07	3.97
1.3 Forestry & Logging	3.21	3.00	2.87	2.64	2.60
2. Mining & Quarrying	2.29	2.01	2.65	2.82	3.40
3. Manufacturing	8.29	8.85	8.33	8.12	7.99
4. Electricity & Water Supply	14.02	12.62	14.45	14.15	14.34
4.1 Electricity	13.99	12.60	14.43	14.13	14.32
4.2 Water Supply	0.03	0.03	0.03	0.03	0.02
5. Construction	16.38	18.13	16.92	15.46	15.61
6. Wholesale & Retail Trade	5.46	6.07	6.48	7.09	7.75
7. Hotels & Restaurants	1.12	1.33	1.53	1.71	1.88
8. Transport, Storage & Communications	10.04	9.50	9.31	9.63	9.00
9. Financing, Insurance, Real Estates & Business Services	8.25	7.61	7.65	7.57	7.44
9.1 Finance & Insurance	6.05	5.53	5.49	5.40	5.23
9.2 Real Estate & Dwellings	2.14	2.00	2.09	2.08	2.07
9.3 Business Services	0.07	0.08	0.08	0.08	0.14
10. Public Administration	7.63	6.95	6.63	6.76	6.90
11. Education & Health	5.18	4.59	4.32	4.08	4.30
12. Private Social & Recreational Services	0.40	0.40	0.41	0.39	0.38
13. Taxes Net of Subsidies	4.62	5.96	5.21	5.45	4.34
Overall GDP	100.00	100.00	100.00	100.00	100.00

Source: National Accounts Statistics, NSB

Table 15.5: Percentage Share of GDP by Major Sector in Current Prices, (2011 - 2015)

Sector	2011	2012	2013	2014	2015
1. Primary	0.16	15.96	0.16	0.17	0.17
2. Secondary	0.41	41.62	0.42	0.41	0.41
3. Tertiary	0.43	42.42	0.42	0.43	0.42
Overall GDP	1.00	1.00	1.00	1.00	1.00

Source: National Accounts Statistics, NSB

Table 15.6: Year on Year GDP Growth, (2011-2015)

(in Percent)

Sector	2011	2012	2013	2014	2015
1. Primary	2.41	2.25	2.40	0.31	0.59
2. Secondary	4.06	6.77	3.90	1.64	3.52
3. Tertiary	13.89	4.29	0.30	3.79	2.39
Overall GDP	7.89	5.07	2.14	5.75	6.49

Source: National Accounts Statistics, NSB

Table 15.7: GDP by Expenditure at Current Prices, (2011 - 2015)

(Nu. in million)

Description	2011	2012	2013	2014	2015
1. Final Consumption Expenditure	51,975.16	61,381.39	71,637.26	82,900.68	96,496.79
Households & NPISHs	34,927.33	42,690.24	53,362.80	62,706.64	73,031.24
General Government	17,047.84	18,691.15	18,274.46	20,194.04	23,465.55
2. Gross Domestic Capital Formation	57,469.55	66,180.82	48,432.57	61,813.47	71,286.96
a. Construction	33,517.76	41,603.17	40,414.59	46,352.54	48,392.69
b. Machinery & Equipment	23,280.94	24,314.12	8,155.02	17,061.61	22,984.31
c. Software, database dev.(gov)	902.60	137.34	193.48	350.83	210.71
d. Valuables	84.05	198.19	215.65	236.86	47.96
e. Changes in Inventories	(315.80)	(72.00)	(546.17)	(2,188.36)	(348.70)
3. Net Export	(24,874.52)	(23,693.89)	(22,988.64)	(25,168.39)	(35,762.45)
Export of Goods & Services	35,003.69	37,739.40	42,636.41	43,376.76	43,414.41
Import of Goods & Services	59,878.21	61,433.29	65,625.05	68,545.15	79,176.858
GDP, Expenditure	84,570.19	103,868.32	97,081.19	119,545.75	132,021.30

Source: National Accounts Statistics, NSB

Table 15.8: GDP Share of Expenditure at Current Prices, (2011 - 2015)

(in Percent)

Expenditure	2011	2012	2013	2014	2015
1. Final Consumption Expenditure	61.46	59.10	73.79	69.35	73.09
Households & NPISHs	41.30	41.10	54.97	52.45	55.32
General Government	20.16	18.00	18.82	16.89	17.77
2. Gross Domestic Capital Formation	67.95	63.72	49.89	51.71	54.00
Construction	39.63	40.05	41.63	38.77	36.66
Machinery & Equipment	27.53	23.41	8.40	14.27	17.41
software data base dev.	1.07	0.13	0.20	0.29	0.16
valuables	0.10	0.19	0.22	0.20	0.04
Changes in Inventories	(0.37)	(0.07)	(0.56)	(1.83)	(0.26)
3. Net Export	(29.41)	(22.81)	(23.68)	(21.05)	(27.09)
Export of Goods & Services	41.39	36.33	43.92	36.28	32.88
Import of Goods & Services	70.80	59.15	67.60	57.34	59.97
GDP, Expenditure	100.00	100.00	100.00	100.00	100.00

Source: National Accounts Statistics, NSB

Price statistics is an important macro-economic indicator to monitor the overall price movement in the economy. It provides information on inflationary trends in the economy which is essential for formulation of monetary and fiscal policies. It is also used in various other purposes like adjustment of income, deflator in economic series like GDP, business analysis, cost escalation, etc.

Bhutan currently compiles and publishes two price indices namely the Consumer Price Index (CPI) and the Producer Price Index (PPI). CPI is a measure of average price change over time in the prices of goods & services purchased by households whereas PPI is a measure of average price change over time in the prices of goods & services sold by domestic producers. CPI measures price change from a consumer's perspective while PPI measures price change from a producer's perspective.

Bhutan started the first compilation of CPI in 1979. CPI was published biannually from 1979 to 2003, and quarterly from third quarter of 2003 till fourth quarter of 2012. However, starting from January 2013 CPI is produced on a monthly basis. The index reference period is December 2012=100 based on which the relative index changes are compared. The current CPI is rebased using the recent BLSS 2012 data and reflects the latest expenditure pattern of the Bhutanese households.

The first PPI was published for 2nd quarter 2011. It is a quarterly publication, and provides monthly indices as well for monitoring price movements on a monthly basis. It includes sectors such as Logging, Mining & Quarrying, Manufacturing, Electricity & Water, Transport and Communication. PPI is compiled by economic activity using the International Standard Industrial Classification (ISIC rev. 4) and by Product group using the Central Product Classification (CPC ver. 2). The weight reference period for PPI is 2010 and the relative index changes are calculated based on September 2011=100 as the index reference period.



Table 16.1: Year on Year Inflation

Group	Weights	2015							
		Jan	Feb	Mar	Apr	May	June	July	Aug
Food	39.92	4.94	4.77	4.77	3.85	2.85	2.07	1.98	2.34
Non-Food	60.08	7.15	7.37	7.28	6.93	6.50	6.55	4.46	3.64
Total	100	6.26	6.32	6.27	5.69	5.03	4.74	3.47	3.12

Source: CPI Bulletin June 2016, National Accounts Division, NSB, Thimphu

Table 16.2: Year-on-Year Percent Change by Group Level

12 Major Groups	Weights	2015						
		Jan	Feb	Mar	Apr	May	June	
Food and non-alcoholic Beverages	36.88	5.26	5.10	5.06	4.05	2.95	2.17	
Alcoholic Beverages and Narcotics	3.03	2.12	1.72	2.27	2.37	2.50	1.78	
Clothing and Footwear	9.20	1.67	3.28	3.24	1.86	6.29	6.53	
Housing, Water, Electricity, Gas and other Fuels	21.70	11.38	11.50	10.25	9.69	6.31	5.47	
Furnishing, Household Equipment and Routine Maintenance of the House.	2.22	3.64	3.11	3.14	4.15	3.38	3.46	
Health	4.67	0.08	2.63	4.02	3.37	2.76	2.98	
Transport	11.98	12.65	11.76	12.54	12.77	13.27	13.72	
Communication	3.03	-4.31	-4.30	-4.27	-4.18	-3.89	0.10	
Recreational and Culture	2.35	1.43	-0.04	1.01	0.72	1.38	1.36	
Education	1.64	5.84	6.48	6.48	6.48	6.48	6.48	
Restaurants and Hotels	1.24	4.91	5.05	6.19	6.62	8.15	8.36	
Miscellaneous Goods and Services	2.06	4.71	3.12	3.75	4.85	4.51	4.26	
Total	100.00	6.26	6.32	6.27	5.69	5.03	4.74	

Source: CPI Bulletin June 2016, National Accounts Division, NSB, Thimphu

					2016					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
	2.38	2.89	2.66	2.76	3.16	2.78	2.78	2.84	3.42	4.36
	3.67	4.03	4.23	3.91	3.16	3.12	3.06	3.22	3.22	3.04
	3.15	3.57	3.60	3.45	3.16	2.98	2.95	3.07	3.30	3.56

2015							2016					
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
	1.94	2.27	2.30	2.89	2.62	2.75	3.23	2.82	2.88	2.93	3.52	4.50
	2.48	3.15	3.37	2.81	3.05	2.83	2.29	2.27	1.55	1.65	2.25	2.61
	5.59	4.60	4.50	5.02	4.93	4.47	3.79	3.23	3.17	3.24	3.44	2.50
	4.87	3.33	3.80	4.17	4.43	3.66	3.54	3.32	3.32	3.39	3.73	3.72
	3.21	2.98	2.73	3.11	3.05	2.43	1.65	2.30	2.13	2.07	1.98	1.87
	2.91	2.78	2.81	2.63	2.78	3.60	1.80	1.49	1.07	1.08	0.59	0.66
	4.90	4.52	3.87	4.48	4.98	5.27	3.60	4.12	4.20	5.00	4.73	4.58
	0.10	0.16	0.19	0.15	0.15	0.15	0.15	0.15	0.15	0.15	-0.08	0.06
	1.66	1.56	1.53	1.66	1.67	0.23	-0.31	-0.16	-0.44	-0.32	-1.05	-1.19
	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.97	6.97	6.97	6.97	6.97
	7.64	7.60	7.79	8.34	8.99	8.51	5.81	5.97	4.82	3.99	3.09	2.95
	3.64	3.10	3.28	3.46	3.55	3.40	2.65	2.89	2.97	2.68	2.50	2.40
	3.47	3.12	3.15	3.57	3.60	3.45	3.16	2.98	2.95	3.07	3.30	3.56

Table 16.3: Month-on-Month Index and Percent Change in the CPI by Overall Index

Index (December 2012=100)					Percent Change (%)			
Year	Month/ weight	Group			Purchasing Power of Ngultrum (Nu.)	Group		
		Food	Non- Food	Total		Food	Non- Food	Total
	Weights	39.92	60.08	100.00		39.92	60.08	100.00
2015	Jan	121.04	118.17	119.31	84	-0.31	0.69	0.29
	Feb	121.11	118.59	119.59	84	0.05	0.36	0.23
	Mar	121.12	118.81	119.73	84	0.01	0.19	0.12
	Apr	121.21	118.82	119.77	83	0.07	0.00	0.03
	May	120.89	119.04	119.77	83	-0.26	0.18	0.01
	Jun	121.27	119.44	120.17	83	0.31	0.34	0.33
	Jul	122.30	120.69	121.33	82	0.69	1.05	0.91
	Aug	123.20	120.80	121.76	82	0.74	0.09	0.35
	Sep	123.93	121.19	122.28	82	0.59	0.32	0.43
	Oct	124.65	121.75	122.90	81	0.58	0.47	0.51
	Nov	124.80	121.85	123.02	81	0.13	0.08	0.10
	Dec	124.97	121.94	123.14	81	0.13	0.07	0.09
2016	Jan	125.07	121.90	123.16	81	0.09	-0.03	0.02
	Feb	124.68	122.29	123.24	81	-0.32	0.32	0.06
	Mar	124.69	122.44	123.33	81	0.01	0.13	0.08
	Apr	124.85	122.65	123.52	81	0.13	0.17	0.15
	May	125.23	122.87	123.80	81	0.31	0.18	0.23
	Jun	126.76	123.07	124.53	80	1.22	0.16	0.58

Source: CPI Bulletin June 2016, National Accounts Division, NSB, Thimphu



Table cont ...

Dzongkhag	Gewog	Chiwog
5. Haa	1. Bji	3. Gyensa Tokey 4. Tsenka Taloong 5. Yangthang
	2. Gakidling	1. Dorithasa Kowkha Yangtse 2. Fentena Sertena 3. Phootsena Ngatse 4. Rangtse Tanga Yokha 5. Saidzong Thangdokha
	3. Kar-tshog	1. Bali Mombitshokha 2. Dragding Karjena 3. Ingo Pharikha 4. Kargoen Hatam 5. Wangtsa
	4. Samar	1. Balamnang 2. Dorikha Langjogang 3. Jenkanang Pudunang 4. Langpa Norbugang 5. Sharri
	5. Sangbay	1. Anakha Shepji 2. Mochhu 3. Nakha Tashigang 4. Sangbay Ama 5. Shema Yaba
	6. Uesu	1. Betso Doomchhog 2. Geyruna Karnag 3. Kipri Tagchhu 4. Pajekha Sangkiri 5. Tshaphel Tsiloongkha
6. Lhuentse	1. Gangzur	1. Ney 2. Jang_Ngar 3. Kyidloong_Somshing 4. Nyimzhong_Tongling 5. Thrima Shawa_Zhamling
	2. Jarey	1. Artobi Ngangngae

cont...

Table cont ...

Dzongkhag	Gewog	Chiwog
7. Monggar	1. Balam	1. Bahkaphai 2. Balam Morphu 3. Doongmanma Selkhar 4. Jadoong Yangbari 5. Khebishing
	2. Chagsakhar	1. Borphai Chagsakhar 2. Doongsingma Pam 3. Kharnang Kheshingra 4. Yangrapoongshing 5. Yetong Jarshingpogtor
	3. Chhaling	1. Chhaling Dopang 2. Chulabi 3. Pangthang Thempang 4. Shebchi Yangthang 5. Wangmakhar Khalangji
	4. Damedtse	1. Baging Shadang 2. Bikhar Thoongdari 3. Damedtse Shaphangma 4. Serkhagphoog Yengkhartshing 5. Zangkhar
	5. Drepoong	1. Bainangri Nyamla 2. Boompazor Drepoong 3. Chhagsuzor Tsangkhar 4. Labtsa Shinggar 5. Zunglen
	6. Gongdue	1. Baagla Dengkaling 2. Daagsa Kumadzong 3. Damkhar Weringla 4. Phadzong 5. Pikari Yangbari
	7. Jurmed	1. Bilam Dangkila 2. Kognala Yaragla 3. Moodoongkhar Tselam 4. Moogtangkhar Tsangkazar

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	7. Jurmed	5. Ngamphoog Sangkama
	8. Kengkhar	1. Dogtang Moorooong 2. Kyidpari Yuldarig 3. Neykolog Warongborang 4. Olokid Tsalabi 5. Phosothong Shingchongri 6. Tongla Zitsibi
	9. Monggar	1. Gyalpoizhing Wangling 2. Kidekhar 3. Koenbar Tagchhu 4. Phosorong 5. Themnangbi Kentongri 6. Wengkhar Yagpoogang
	10. Na-Rang	1. Dongshoom Pangkhang 2. Gomchhu 3. Khalong 4. Narang Pangthang 5. Thrinangphu
	11. Ngatshang	1. Ngatshaang 2. Nyingala Phanasi 3. Phelshoob 4. Thoombari Zangdari 5. Yadi Yekhar
	12. Saling	1. Drogasr 2. Kalapang Resa 3. Saling 4. Senggor 5. Thridangbi 6. Tsenzabi Masangdaza
	13. Shermuhoong	1. Gangmoong 2. Jabang Thueling 3. Malang Serzhong 4. Muhoong Shiling 5. Soenakhar Yarab

cont...

Table cont ...

Dzongkhag	Gewog	Chiwog
7. Monggar	14. Silambi	1. Daag 2. Gyalong 3. Kadag Silambi 4. Pang Nagor 5. Wama
	15. Thang-Rong	1. Atola 2. Bauchhoeling Panglen 3. Changshing 4. Lingkhar 5. Ngaru Pongtang
	16. Tsakaling	1. Drenbling Horong 2. Drongtoed Tormazhong 3. Kaling Thoomling 4. Nyartsi Tsakaling 5. Tagkhambi
	17. Tsamang	1. Baanjar 2. Drangmaling Nanggor 3. Ganglapong Maed 4. Ganglapong Toed 5. Thuenmong Tokari
8. Paro	1. Dokar	1. Dawakha Tshongkha 2. Goensakha Phuchhekha 3. Khamdraag Sali 4. Mendrel Uesuna 5. Tenchhekha Tsiphoog
	2. Dopshar-ri	1. Duezhi Jipa 2. Jangsa Jooka 3. Jizhigang 4. Kempa Kuduphoog 5. Rinchhending Sharri
	3. Doteng	1. Aatsho Phunoob 2. Chhubar 3. Jabji Loogchhoed 4. Joogar Pachhu

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Table cont ...

Dzongkhag	Gewog	Chiwog
8. Paro	3. Doteng	5. Phooshar
	4. Hungrel	1. Chhubjagkha 2. Gaupel 3. Goenkha 4. Hoongrelkha Jangsarbu 5. Loongchhungna
	5. Lamgong	1. Chhukha 2. Ngopa Shomo 3. Tsendonang 4. Gangjoog Kyidchhu 5. Jagarthang
	6. Loong-nyi	1. Baangdey 2. Dzongdraag Gadraag 3. Jieu Wochhu 4. Naemjog 5. Pangbisa
	7. NaJa	1. Bemphu Lingzhi Nagu 2. Bueltikha Jagoen 3. Jazhina Tsuengoen 4. Rangzhangang Tshebji 5. Wanakha Zursuna
	8. Sharpa	1. Bara Zhunggar 2. Bjizhikha Phubarna 3. Chhukha Gangjoogkha 4. Dochhoeten Neyphu 5. Drugyaldingkha Zhelngo
	9. Tsento	1. Chhungjey Zamsar 2. Mitshig Shana 3. Nyamjey Phangdo 4. Nyechhu Shari 5. Soe Yagsa
	10. Wangchang	1. Changkhar Jangteyina 2. Changmedthangka Khangkhu 3. Dungkhar Namkhar

cont...

Table cont ...

Dzongkhag	Gewog	Chiwog
	10. Wangchang	4. Gebtoed Olathang Tajoog 5. Mendrel Nakha
9. Pemagatshel	1. Chhimoong	1. Chhimoong 2. Chhiphoong 3. Loongkholom 4. Nyasikhar 5. Pangthang Redingla
	2. Chhoekhorling	1. Arden 2. Chhoekhorling Gazawong 3. Dizama Shoguri 4. Kerong 5. Yargyewoong
	3. Chongshing	1. Chongshing Jorphoong 2. Guyoom Lanangzor 3. Kamri Yomzor 4. Maendi 5. Thongsa
	4. Dechhenling	1. Bidoongri Yangmalashing 2. Dechhenling Goenpawoong 3. Doongchhilo Kholomri 4. Doongphu Shingchongri 5. Goishing Ridzommo 6. Namdagling
	5. Dungmaed	1. Bangyuel 2. Dungmaed Zimzor 3. Lanyiri Thrumchoong 4. Serduwa 5. Woongborang
	6. Khar	1. Bongmaan 2. Khar Yagyur 3. Khengzor Labar 4. Nagtseri Shemshem Tsebar 5. Shinangri
	7. Nanong	1. Gashigkhar Tshatshi

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Table cont ...

Dzongkhag	Gewog	Chiwog
9. Pemagatshel	7. Nanong	2. Nanong 3. Raling 4. Terphug Woongchhiloo 5. Tokari
	8. Norboogang	1. Gashari 2. Maenchhu Nganglam 3. Norboogang Rinchenzor 4. Nyingshingborang 5. Tshaelshingzor
	9. Shumar	1. Bartseri 2. Chongmashing Dagor 3. Goenpoong Shali 4. Khothagpa Yalang 5. Nangkor
	10. Yurung	1. Bangdala 2. Doongsingma Thoongkhar 3. Khangma 4. Khominang Yangkhar 5. Wanglakho Thoonggo
	11. Zobel	1. Choongkhar Pangthangdaza 2. Maan Tshelinggor 3. Ngangmalang Zorjoog 4. Raysinang 5. Zobel
10. Punakha	1. Barp	1. Chagsa 2. Gamakha Sebtokha 3. Sobsokha Yuwakha Zhikha 4. Tshogkorna 5. Usakha
	2. Chhuboog	1. Bali 2. Bumtakha Tenpakha 3. Jangwakha Sewala 4. Ngoedroobchhu 5. Yebisa

cont...

Table cont ...

Dzongkhag	Gewog	Chiwog
10. Punakha	3. Dzomi	<ol style="list-style-type: none"> 1. Dzomisa Mendagang 2. Gubji Tseykakha 3. Jimithang 4. Khilikhar Loongkha 5. Tanag Uesa
	4. Goenshari	<ol style="list-style-type: none"> 1. Draagchhukha 2. Goomgang 3. Sechaednang 4. Yorbo 5. Zhelngoosa
	5. Guma	<ol style="list-style-type: none"> 1. Baymenang Phulingsoom Wangwakha 2. Changyuel Loongsilgang Tashijong 3. Dochhukha Dzumlingthang Ritsa 4. Guma Wolakha 5. Lakhu Tshowogm
	6. Kabisa	<ol style="list-style-type: none"> 1. Agonang Zarbisa 2. Chhoetennyngpo Uesarkha 3. Heyloog Tongzhoognang 4. Peltari 5. Sirang Wakoodamchh
	7. Lingmukha	<ol style="list-style-type: none"> 1. Dompala 2. Goomkarmo 3. Lingmukha 4. Nabchhed 5. Oomtekha
	8. Shelnga-Bjemi	<ol style="list-style-type: none"> 1. Chongzhi Jarigang Jazhikha 2. Datong 3. Gangkha 4. Khubji Tshosa 5. Thongbji
	9. Talog	<ol style="list-style-type: none"> 1. Dongkokhar Yonggu 2. Gangthramo Labtsakha Soelwadrangsa 3. Loongnangkha 4. Norbugang

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Table cont ...

Dzongkhag	Gewog	Chiwog
10. Punakha	9. Talog	5. Talog
	10. Toedwang	1. Dawakha 2. Jibjo Yuesakha 3. Kewanang Tsachhuphu 4. Tamigdamchhu Thangbji 5. Tsephug Khawakha
	11. Toepaisa	1. Bichhekha Yuelhamo 2. Damkhyi Rinakha 3. Dochogla Maenchhuna 4. Goenmkha Mendrelgang 5. Lemjakha Thinleygang
11. Samdrup Jongkhar	1. Dewathang	1. Bangtsho 2. Chhenangri Rishor 3. Domphoog Dungkharchhoeling 4. Martang 5. Rikhey
	2. Gomdar	1. Broomi Chidoongkhar 2. Denchhi 3. Gomdar Richhanglu 4. Khoyarpangthang Palroong 5. Narphoong
	3. Langchenphu	1. Agoorthang 2. Jampani 3. Jangsa 4. Langchenphu 5. Rongchhuthang
	4. Lauri	1. Betseling Doongmanma 2. Gonong Zangthig 3. Lauri 4. Momring Rolnang 5. Tshothang
	5. Martshala	1. Chhoedoong Kakani 2. Galingkhar Wangphoog 3. Kaeptang Tsholingkhar

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Table cont ...

Dzongkhag	Gewog	Chiwog
11. Samdrup Jongkhar	5. Martshala	4. Martshala 5. Sarjoong 6. Suzor Tshotsalu
	6. Orong	1. Bilam Orong Suzoong 2. Jangchhubling 3. Morong 4. Nabar Philooma 5. Nagzor Wooling 6. Rimoong
	7. Pemathang	1. Chirtshosa Loongminang 2. Kathoobdrang Shilinggye 3. Pemathang 4. Raling 5. Uesarna Warong
	8. Phuentshogthang	1. Baylamsharang 2. Doongkarling 3. Khamaedthang 4. Minjigang 5. Phuentshogthang 6. Samdrupchhoeling
	9. Samrang	1. Damsagang Maed 2. Damsagang Toed 3. Ngangtshothang Maed 4. Ngangtshothang Toed 5. Tshoduen
	10. Serthig	1. Dangtsho Serthig 2. Drenphoog 3. Khandophoog Maenjiwoong 4. Monmola Tashithanggyed 5. Phagchhog Suskar
	11. Wangphoog	1. Bayuel Pangthang 2. Benporong Yarphoog 3. Sacchilo 4. Serchhenmo Wangphoog

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Table cont ...

Dzongkhag	Gewog	Chiwog
	11. Wangphoog	5. Shogshi
12. Samtse	1. Doongtoed (Dumtoe)	1. Doongtoed Chhewa 2. Doongtoed Chhungwa Jarikha 3. Doongtoed Khaling 4. Gebji Kuzhuggang 5. Maedgang
	2. Dophoogchen (Dorokha)	1. Aringgang Midzomsa 2. Dangreyboog Ngagang 3. Manigang Thingyorsa 4. Melonggang Thuloonggang 5. Sangloong Senteng 6. Singye
	3. Duenchhukha	1. Biloong Pongthra 2. Dhuenchhukha Gabji 3. Domchhukha Shitakha 4. Gawaling Karzhing 5. Gesarling Yomdeling
	4. Namgaychoeling (Lahireni)	1. Chhunaggang Chhoedleling 2. Gyalposhing Satsangsa 3. Namgaychhoeling 4. Pagshingka Tshachhugang 5. Sernyagang Tsholingkhar
	5. Norboogang (Chengmari)	1. Damzhagsa Tsaphelthang 2. Dawaling Yangphelthang 3. Dramzedgang Maedgang 4. Khangduzhi Kyidsa 5. Lambi Lamjosa
	6. Norgaygang (Bara)	1. Chhugoo Phendegang 2. Chongzhu Tshachhu 3. Dangreyboog Patshaling 4. Joenpang Lingarnang 5. Khabaabgang Noryog 6. Miphelgang Samphelgang
	7. Pemaling (Biru)	1. Chhusilgang Dramedsa

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Table cont ...

Dzongkhag	Gewog	Chiwog
12. Samtse	7. Pemaling (Biru)	2. Dizanggang Nakeyling 3. Manigang Tashithang 4. Norgeyling Singdregang 5. Thangchhennang Damtshangna
	8. Phuentshospelri (Pugli)	1. Chhunag Doomshinggang 2. Gashingma Ketshaelgang Thongjabi 3. Jangchhogling Lachhungthang 4. Nyoenpaling Tingtingma 5. Tashilakha Uelgyalling
	9. Samtse	1. Damtshangma Khandothang 2. Dewathang Lamaithang 3. Lingmaithang Taserpo 4. Nyimaling Chhirlogsa 5. Satshamchhu Tshongdzonm
	10. Sa-Ngag-Chhoeling (Chargharey)	1. Chhuchhungsa Karseling 2. Dephellingmaed Khangzangling 3. Dephellingtoed Namseling 4. Joenlegsa Sangngangchhoeling 5. Ngoedroobling
	11. Tading	1. Dangreyboong Nyindooglakha 2. Khempagang Panzhing 3. Norjangsa Zochhaling 4. Tading Tenpaling 5. Thongsa Tobchhenthang
	12. Tashichhoeling (Sipsu)	1. Baepoteng Kangdoongphug 2. Daaling Gangjoog 3. Dewachen Zhiwaling 4. Norjangsa Peljorling 5. Tashichhoeling
	13. Tendruk	1. Dawathang Kuengaling 2. Kachhen Kuchhen 3. Khengtong Targothang 4. Miglamthang Thagpzosa 5. Nyizergang Tendruk

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Table cont ...

Dzongkhag	Gewog	Chiwog
12. Samtse	14. Ugyentse (Nainital)	1. Dangkarling Dechhengang 2. Dangreyboog Rigpailing 3. Jarithang 4. Kardog 5. Nyimalung Tharpaling
	15. Yoeseltse (Ghumauney)	1. Dungkar 2. Koenchhogling Soenakha 3. Pelkithang Rangjoongling 4. Rinchhenphoog Samtenchhu 5. Zurigang Jigmedthang
13. Sarpang	1. Chhudzom	1. Dragchhu 2. Gaalegthang 3. Jangchhubling 4. Lhayuel 5. Sherabling
	2. Chhuzagang	1. Barthang 2. Chagsakhar 3. Nyimaling Shawapong 4. Pangzor 5. Thongjabi Yueling
	3. Dekiling	1. Chhoekhorling 2. Dekiling 3. Gawaithang 4. Jigmeling 5. Nubgang
	4. Gakiling	1. Gakiling 2. Getemkha 3. Maenchhulam 4. Rilangthang 5. Sangkha
	5. Gelegphu	1. Dzomlingthang 2. Lekidthang 3. Pelrithang khamaed 4. Pelrithang khatoed

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Table cont ...

Dzongkhag	Gewog	Chiwog
13. Sarpang	5. Gelegphu	5. Pemathang
	6. Jigme-Chhoeling	1. Chhoetenkhar 2. Gongduegang 3. Gongtsekha 4. Khamaed 5. Khatoed 6. Samkhar
	7. Samtenling	1. Chhoekhorling_Dechhenpelri 2. Dechhenpelri 3. Khenpagang 4. Samteling 5. Samthenthang
	8. Senggey	1. Labtsakha 2. Nyenyul 3. Rishong 4. Sangyethang 5. Yarpeling
	9. Serzhong	1. Barshong 2. Norbuling 3. Pemayoedling 4. Sherzhong 5. Tashiphu
	10. Shompangkha	1. Dargyethang 2. Gomchola 3. Koenchhogling 4. Risoomgang 5. Shompangkha
	11. Tareythang	1. Dorjitse 2. Pemachhoeling 3. Tashichhoeling 4. Woongchhiloo 5. Yoezergang
	12. Umling	1. Daangling 2. Doongmin

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Table cont ...

Dzongkhag	Gewog	Chiwog
13. Sarpang	12. Umling	3. Gaden 4. Rijoog 5. Tashithang
14. Thimphu	1. Chang	1. Rama 2. Gangcheb Talakha 3. Hongtsho 4. Debsi 5. Yusipang
	2. Dagala	1. Chamgang Moed 2. Chamgang Toed 3. Dungdro 4. Gaytala 5. Wangdro
	3. Genyen	1. Chizhi 2. Genekha 3. Tshochekha 4. Wangbama 5. Zanglakha
	4. Kawang	1. Begana 2. Choekhor Chamina 3. Changtagang 4. Dazhi Zhoshuel 5. Kuzhugchen
	5. Lingzhi	1. Chakphu 2. Chhuzarkha 3. Gangyuel 4. Khangkidyuel 5. Shagyuel
	6. Mewang	1. Danglo Namsaeling 2. Jeminang 3. Khasadrapchu 4. Sisinang 5. Tshaloongna
	7. Naro	1. Barshong

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Table cont ...

Dzongkhag	Gewog	Chiwog
14. Thimphu	7. Naro	2. Mentsephu 3. Phagay 4. Thaksethang 5. Zhomthang
	8. Soe	1. Damgochong 2. Dotaapaithang 3. Jangothang 4. Jomphu 5. Dozoten
15. Trashigang	1. Bartsham	1. Bainangkhar Nangkhar 2. Dzongthong Menchhari 3. Jamoong Kumoong 4. Moogtangkhar 5. Trashang
	2. Bidoong	1. Kakaniwog 2. Khairi Saling 3. Lemphang 4. Tsekhar 5. Tsigtoom
	3. Kanglung	1. Maanthong 2. Mertsham Thragom 3. Pangthang Ritsangdoong 4. Rongthoong Shingchen 5. Yonphoogla
	4. Kangpar	1. Bedengphoog Merdag 2. Kangpar Lamyong 3. Passaphoog Peydoong 4. Threlphoog 5. Zordoong
	5. Khaling	1. Barshong 2. Bayphoog Togkaphu 3. Brekha Meringzor 4. Gomchhu Kholdoong 5. Jiri Lemi

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Table cont ...

Dzongkhag	Gewog	Chiwog
15. Trashigang	5. Khaling	6. Khaling
	6. Lumang	1. Chhengri Doongmanma 2. Drubkhang Lumang 3. Kharphoog Kurchhilo 4. Moochhu Wakhar 5. Riserboo Tsangpo 6. Tshogoenpa
	7. Merag	1. Gyengo 2. Khashateng 3. Khiliphoo 4. Merag Maed
		5. Merag Toed
	8. Phongmed	1. Lem 2. Phimshong 3. Phongmed 4. Thongrong 5. Yabrang
	9. Radi	1. Dekidling Tsenkhar 2. Kadam 3. Nagtshang Togshingmang 4. Pakaling 5. Tonglingpam
	10. Sagten	1. Borangmang Borangtse 2. Joenkhar Moorbi 3. Pusa Tenmang 4. Sagteng 5. Thagthri
	11. Samkhar	1. Bikhhar Domkhar 2. Chagzam Pam 3. Kapang Yenangdrangsa 4. Khabti Lungtenzampa 5. Maelphel Samkhar 6. Rangzhikhar Serdrang
	12. Shongphoog	1. Chaling

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Table cont ...

Dzongkhag	Gewog	Chiwog
15. Trashigang	12. Shongphoog	2. Chhangmi Rangjoong 3. Dramin Shongphoog 4. Galing 5. Gongtsephangma Yobinang
	13. Thrimshing	1. Berdoongma Thoongkhar 2. Bongzor Phegpari 3. Doongsingma Tsangpo 4. Ramchongma Yemkhar 5. Thrimshing
	14. Udorong	1. Baepam 2. Barkazor Maenkhar 3. Benshingmo Jomtsang 4. Chhiya 5. Rizor Yerchhilo
	15. Yangnyer	1. Daliphang Ragshigo 2. Dargyeling Kharthoong 3. Duroong Ngambinlang 4. Khardza Leyphoog 5. Shokang Tagtagpa
16. Trashiyangtse	1. Boomdeling	1. Betsamang 2. Bomdir Wogmanang 3. Gangkhar doong Tshaling 4. Ngalmang Phanteng 5. Pangkhar Taphel
	2. Jamkhar	1. Chhema Tagchhema 2. Laishoom Largyab 3. Neydrag Pachhu 4. Rijoong Yoob 5. Shingkar Tongla
	3. Khamdang	1. Domtshang Karmazom 2. Duntse Lengkhar 3. Khamdang Manla 4. Nombaring Shazam 5. Serpang Shalli

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Table cont ...

Dzongkhag	Gewog	Chiwog
17. Trongsa	4. Ramjar	1. Bainangreb Romang 2. Bawoong 3. Domtshang Doongmaen 4. Khalapangthang Tsangrong 5. Lengbartang Woongkhar
	5. Toedtsho	1. Chhemkhar Manam 2. Jangphoogtse Thangdoong 3. Khinyel Togshing 4. Maeldoong 5. Nangkhar Seb 6. Sertsho
	6. Tongmizhangsa	1. Bagpa Kuenzangling 2. Bainangkhar Gomkor 3. Changmadoong Shoganang 4. Maenchu Tsangdoong 5. Pang Lhauzhing
	7. Yalang	1. Chhema Melongkhar 2. Doogti Gashing 3. Namthi Yarphel 4. Phugyang Yalang 5. Rolam Thragom
	8. Yangtse	1. Baney Bimkhar 2. Bayling 3. Gangkhar 4. Lichen 5. Rabti
	1. Draagteng	1. Kuenga Rabten 2. Samling Khamaed 3. Samling Khatoed 4. Tagtse_Tashidingkha 5. Uesar
	2. Korphoog	1. Korphoog Maed 2. Korphoog Toed 3. Nabi

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Table cont ...

Dzongkhag	Gewog	Chiwog
18. Tsirang	2. Korphoog	4. Nyimzhong Maed 5. Nyimzhong Toed
	3. Langthil	1. Baling 2. Dangdoong 3. Jangbi 4. Langthil 5. Yuedroongchhoeling
	4. Nubi	1. Bagochen_Boolingpang_Ueling 2. Bemji_Chela 3. Bji_Sengm_Bji 4. Darbab_Sinphoog 5. Gaghar_Kar-zhong
	5. Tangsibji	1. Chendenbji 2. Kela 3. Nyala_Drangla 4. Tangsibji 5. Tshangkha
	1. Barshong	1. Barshong Maed 2. Barshong Toed 3. Chunyikhang 4. Gangtogkha 5. Toedsang
	2. Doonglagang	1. Dangreyboog Maed 2. Dangreyboog Toed 3. Dingrigang Lhamoilongm 4. Khirithang 5. Norjangsa
	3. Gosarling	1. Dzamlingthang 2. Dzamlingzor 3. Pelrithang 4. Pemathang 5. Phuensoomgang
	4. Kilkhorthang	1. Dekidling 2. Maenchhana

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Table cont ...

Dzongkhag	Gewog	Chiwog
18. Tsirang	4. Kilkhorthang	3. Nyizergang 4. Satsangma 5. Tashiyangjong
	5. Mendrelgang	1. Dzamlingzor 2. Mendrelgang 3. Pemashong Samshingaden 4. Riserboo 5. Tashipang
	6. Patshaling (Beteni)	1. Chhuzomsa 2. Pangthang 3. Pantshaling Maed Tsakaling 4. Pantshaling Toed 5. Thakorling
	7. Pungtenchhu	1. Goentekha Tongshinggang 2. Norboothang 3. Peljorling 4. Serzhong 5. Tashichhoeling
	8. Rangthangling	1. Chringma Rangthangling 2. Darchhargang 3. Gagaling Nyimazor 4. Neymedsa 5. Soonkosh
	9. Semjong	1. Dangreygang 2. Dekidling 3. Dzomling 4. Tashiling Maed 5. Tashiling Toed
	10. Sergithang (Patala)	1. Norboogang 2. Semdenjong 3. Sergithang Maed 4. Sergithang Toed 5. Tashithang
	11. Tsholingkhar	1. Droobchhugang

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Table cont ...

Dzongkhag	Gewog	Chiwog
18. Tsirang	11. Tsholingkhar	2. Gomsoom 3. Kapazhing 4. Tsholingkhar Maed 5. Tsholingkhar Toed
	12. Tsirang Toed	1. Kabelzhing 2. Soentabsa 3. Tagthang Wangphoo 4. Tongshingnang 5. Tsirang Toed
19. Wangdue Phodrang	1. Athang	1. Jaroggang Dzawa 2. Lawa Lamga 3. Lomtshokha 4. Lophokha Pagtakha 5. Rookha
	2. Bjednag	1. Bjednagloongpa Thingmakha 2. Garzhikha Omchheygang 3. Ngawang Tongchennang 4. Tashitokha 5. Wachhey
	3. Dangchhu	1. Doongdoongnyelsa Norbooding 2. Godraang Taagsar 3. Tashidingkha Zimi 4. Tokaling Tomla 5. Uesagang
	4. Darkar	1. Gyapakha 2. Kamichhu Umakha Maed 3. Kamina Wogyal 4. Sili Taagsha 5. Umakha Toed
	5. Gangteng	1. Jangchen Koomboo 2. Gorgoen 3. Gangteng 4. Tapaiteng Uega 5. Yaekorwog

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Table cont ...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	6. Gase Tsho-Gongm	1. Changche Matshigpogto 2. Changkha 3. Dabchhaykha Matshigkha 4. Khamaedna 5. Khatoedkha
	7. Gase Tsho-Woom	1. Haebisa 2. Haetshokha 3. Medpaisa Taabchhaekha 4. Shingkheykha Toed 5. Singkheykha Maed
	8. Kazhi	1. Baedrog 2. Chegidp 3. Kazhi 4. Komathrang 5. Lengbi
	9. Nahi	1. Haebisa 2. Halued Uesawogm 3. Khorjoongla Langmizi 4. Nagbisa 5. Uesagongm Thabji
	10. Nyishog	1. Chhaebhakha 2. Chitokha Pangkha 3. Gangjab 4. Geylegkha Kuenzangling 5. Goensar Rajawog 6. Samtengang
	11. Phangyuel	1. Chhunggoen 2. Chhungserkha Domkha 3. Goenkhar 4. Koomchhi Phangyuel 5. Uesargang Wampoekhar
	12. Phobji	1. Damchhoe Gangphel 2. Dogsenang Gorphoog 3. Drangpa Pangsar

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Table cont ...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	12. Phobji	4. Khemdro Nemphel 5. Talachen Tawa Taphoog
	13. Ruebisa	1. Bangtoedkha 2. Bjagphug 3. Gyala 4. Oola 5. Zaming
	14. Saephoog	1. Boommilog 2. Booso Zeri 3. Longtoed 4. Nakha 5. Rukoobji
	15. Thedtsho	1. Jang Rinchhengang 2. Lho Rinchhengang 3. Martaloongchu 4. Thanggoo 5. Wangjokha
20. Zhemgang	1. Bardo	1. Bardo 2. Digala 3. Khomshar 4. Langdorbi 5. Phulabi
	2. Bjoka	1. Bjokar 2. Chabdenba Dzarkabla 3. Dali 4. Kamati 5. Sarpong Namirgang
	3. Goshing	1. Budhashi 2. Lamthang 3. Lichibi 4. Lingmapong Samchhoeling 5. Mewangang
	4. Nangkor	1. Buli 2. Dakphel Tali

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Table cont ...

Dzongkhag	Gewog	Chiwog
20. Zhemgang	4. Nangkor	3. Duenmang 4. Goleng 5. Nyakha
	5. Ngangla	1. Kagtong 2. Marangduet 3. Ngangla Trong 4. Panbang Sonamthang 5. Ribati
	6. Phangkhar	1. Chargngarzam 2. Mamong Trong Pantang 3. Panabi 4. Rongchola Dadijong 5. Shalingtoed Tashibi
	7. Shingkhar	1. Nyimzong Thajong 2. Radi 3. Singkhar 4. Thrisa 5. Wamling
	8. Trong	1. Berti Tagma 2. Dangkhar Trong 3. Gongphu 4. Soobdrang 5. Tshanglajong Zurphel

Source: Election Commission of Bhutan and Dzongkhag Administration.

